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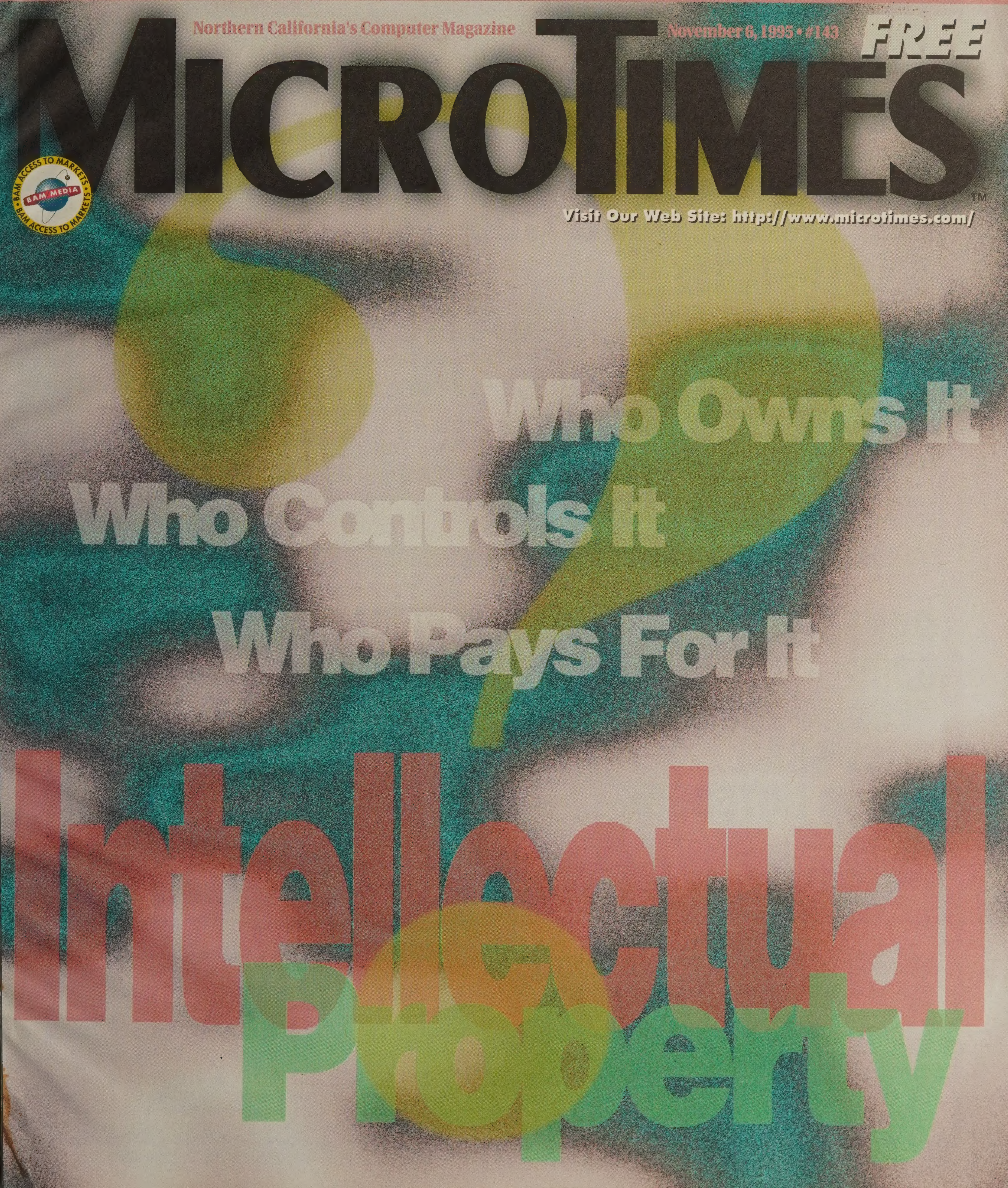

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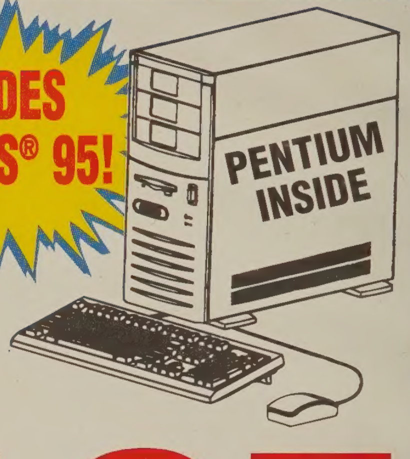
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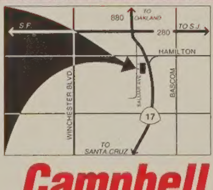
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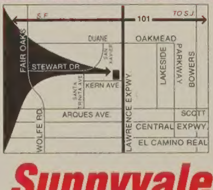
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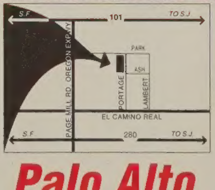
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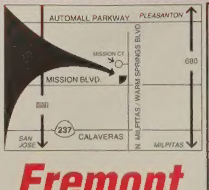
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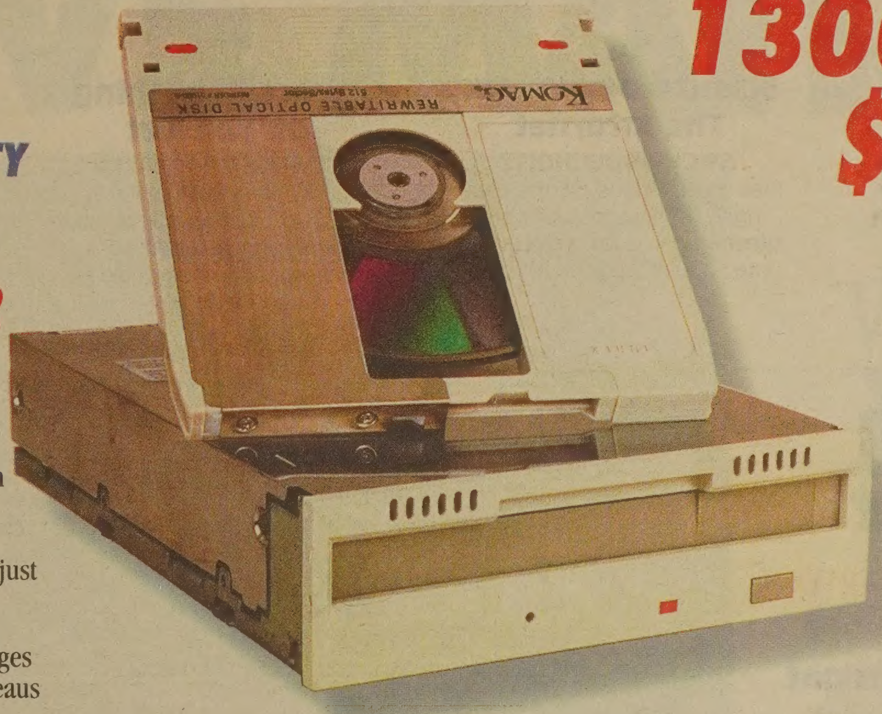

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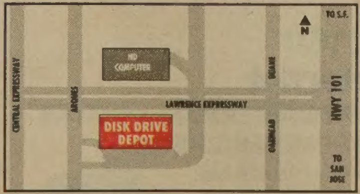
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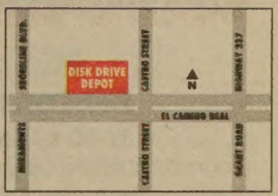
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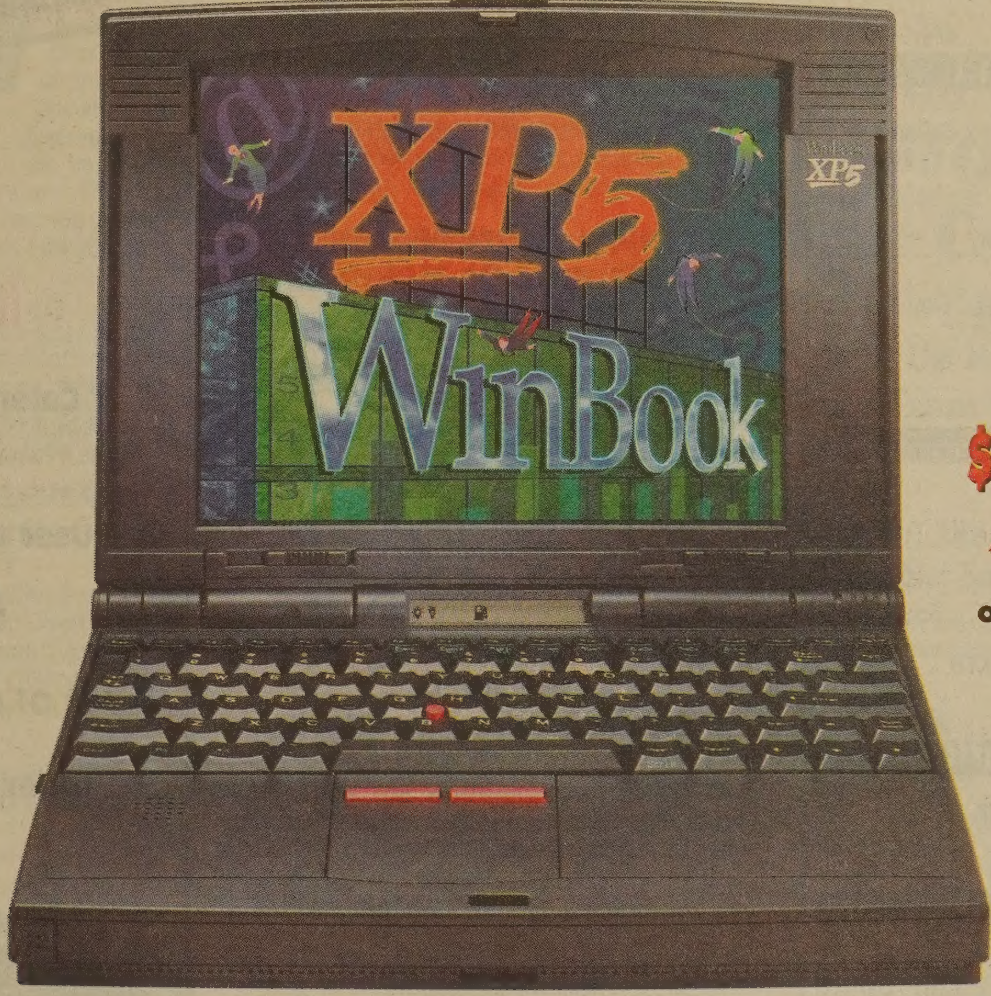

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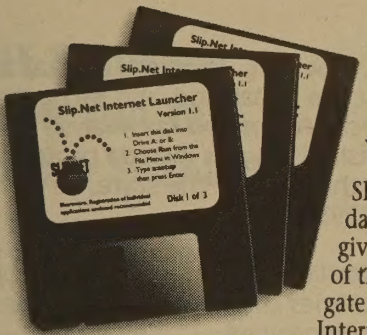

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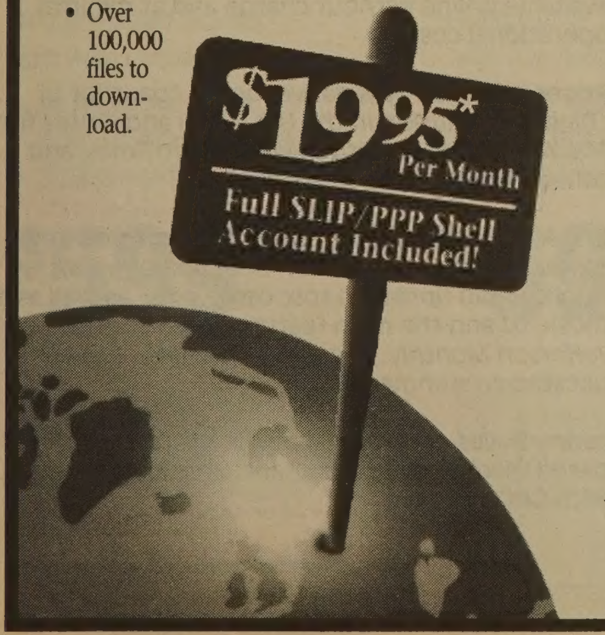
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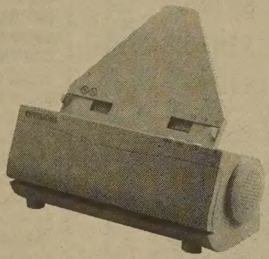

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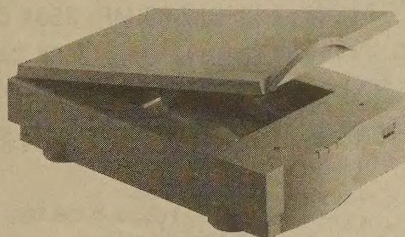

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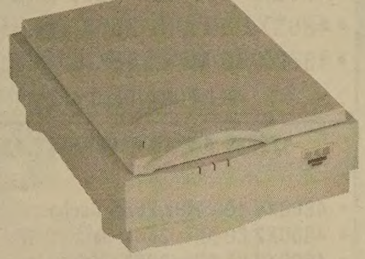

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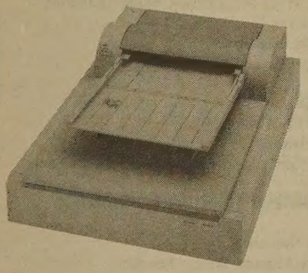

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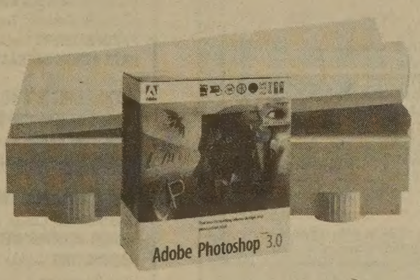

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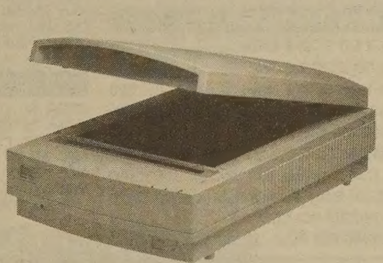

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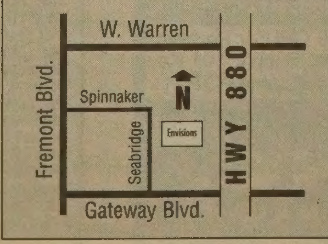

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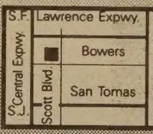

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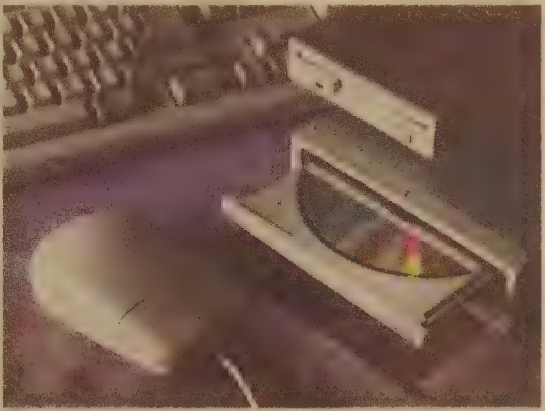

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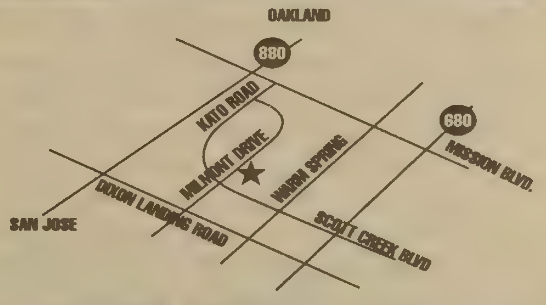

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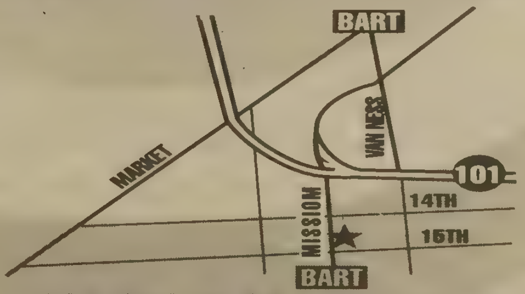

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BY PAUL HOFFMAN

Industry Insights

Less For Free On The Internet: NSF Starts Charging For Domain Names

"Free" is a very attractive word, and many people expound on how wonderful the Internet is because so much of it is free.

Of course, "free" is a relative term, and very little in life is truly free. Everything has cost structures built in, and marketers try to make as much of a product as possible look "free" while hiding the real costs. Television is a great example: watching shows is often thought of as "free," even though you pay for the shows in higher costs of the goods that are advertised on your favorite shows. Further, many people pay a monthly charge for cable that partially supports cable-specific channels.

The Internet is not now, nor has it ever been, free. However, the costs of running the Internet are so difficult to pin down that it is convenient to just set the costs to zero in our minds. The recent announcement that a service that used to be free—obtaining and keeping a domain name—will now cost a small amount has set off many alarms about the end of the "free Internet." In fact, it is just one step towards making real costs of the Internet more visible.

The Internet's domain name system, or DNS, is the method by which you can find computers on the Internet by their names instead of by their numerical addresses. It is important for many reasons, particularly when addresses change, as they often do.

For many years, domain names like "microtimes.com" were handed out freely by the keepers of the DNS, namely the US National Science Foundation. The reason the NSF did this for free was because it was easy and cost almost nothing, so it was probably easier to just do it at no charge instead of coming up with a pricing scheme.

In the past five years, there has been so much hype about commercializing the Internet that many companies decided that they had to "stake a claim." When they discovered that getting a domain name was free, they were even more excited. Thus, the demand for new domain names being issued by the NSF, and then later by their contractor Network Solutions, Inc. (NSI), grew incredibly. People started registering dozens of names just because they could, and also so they could sell the good ones to other people later. It became a mess for the NSF.

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A few years ago, NSF said it might have to change its policy, and last month it did: it started charging for new domain names and for maintaining current ones. The charges are quite small relative to the costs of keeping a connection on the Internet: $50 per year. In announcing the change, the NSF made it very clear that this charge was per domain name, not per mailbox. America Online must pay the $50/year for "aol.com", but none of its members have to pay anything for having a name like "microxnews@aol.com".

Immediately after the announcement, a few people who had mistaken the Internet for free started screaming. A few greedy folks who are much too friendly with their lawyers threatened to sue the NSF and NIS unless they too were allowed to create domains and charge for their use. Others bemoaned the loss of the freedom, ignoring the fact that US taxpayers had been paying for this "free" service all along. What started out as cooperation among many academics and volunteer time from many computer scientists all of a sudden became something that should be given away forever.

Fortunately, not everyone is as oblivious to the hidden costs of the Internet. The not-so-hidden restrictions on bandwidth are becoming

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more apparent to the typical Internet user, particularly those trying to access the World Wide Web. Getting information off the Web during the early evening is much slower than during the day because many nonbusiness users get on their modems after work.

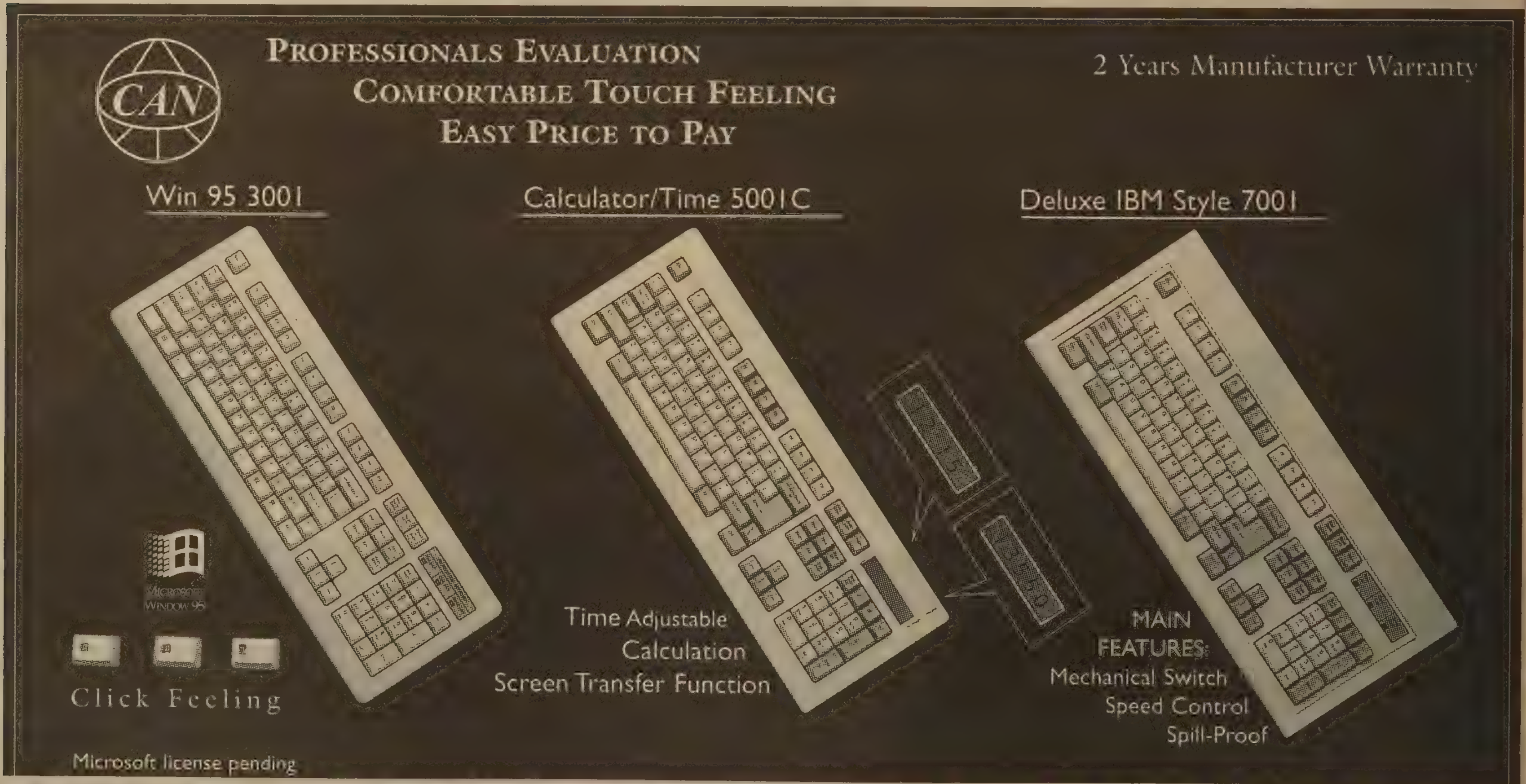
America Online, CompuServe, and Prodigy now all offer Web access through their services, and their Web access, which is normally quite good during the day, slows to a crawl in the evenings. The main reason for this is that the services don't have a big enough connection to the Internet to handle their users at peak times due to the high cost of such a connection. Another reason is that the connections at the destination Web sites are also more congested at peak times. Throwing more money at the connections could make them faster, but would the users of these services be willing to pay for those connections over the long haul? Apparently, the services don't think so.

The "free Internet" myth has always been about as true as "free farm subsidies" and "free lunch." Someone, usually the government, was paying for it. Even when the US government (through the NSF) stopped paying for the Internet in this country, the myth lived on, because many of the companies that stepped in poured a lot of money into their connections in hope of making it back over time. In the short run, however, it seemed like the connections were free.

Americans, like most people, don't treat free things with much respect. They have a tendency to waste them on the mistaken belief that there is an inexhaustible supply, and that the supply will always be free. The reactions from some of the members of various Internet mailing lists after the domain name fee was announced clearly showed that they felt that names should be free because they always were free. Even a small amount (what business can't afford $50 a year for a bit of marketing?) was too much for them, and they were angry.

The situation with free-flowing information on the Internet is similar to the costs of roads. When there are potholes on a street, the cry of "someone should fix it" goes out immediately. How many people think about which taxes, coming from where, go into the price of building new roads and fixing existing ones? Are roads paid out of gasoline sales taxes, automobile sales taxes, or general revenues? On the Internet, who pays for the bits flowing from your computer to a Web host? Who pays for making new domain names translate correctly? When part of the net is down due to a programming error, who pays to fix it?

Given the wide range of services available on the Internet, everything from universal electronic mail to online ordering of merchandise to instantly updated stock market information, it would be silly to try to make the end-users of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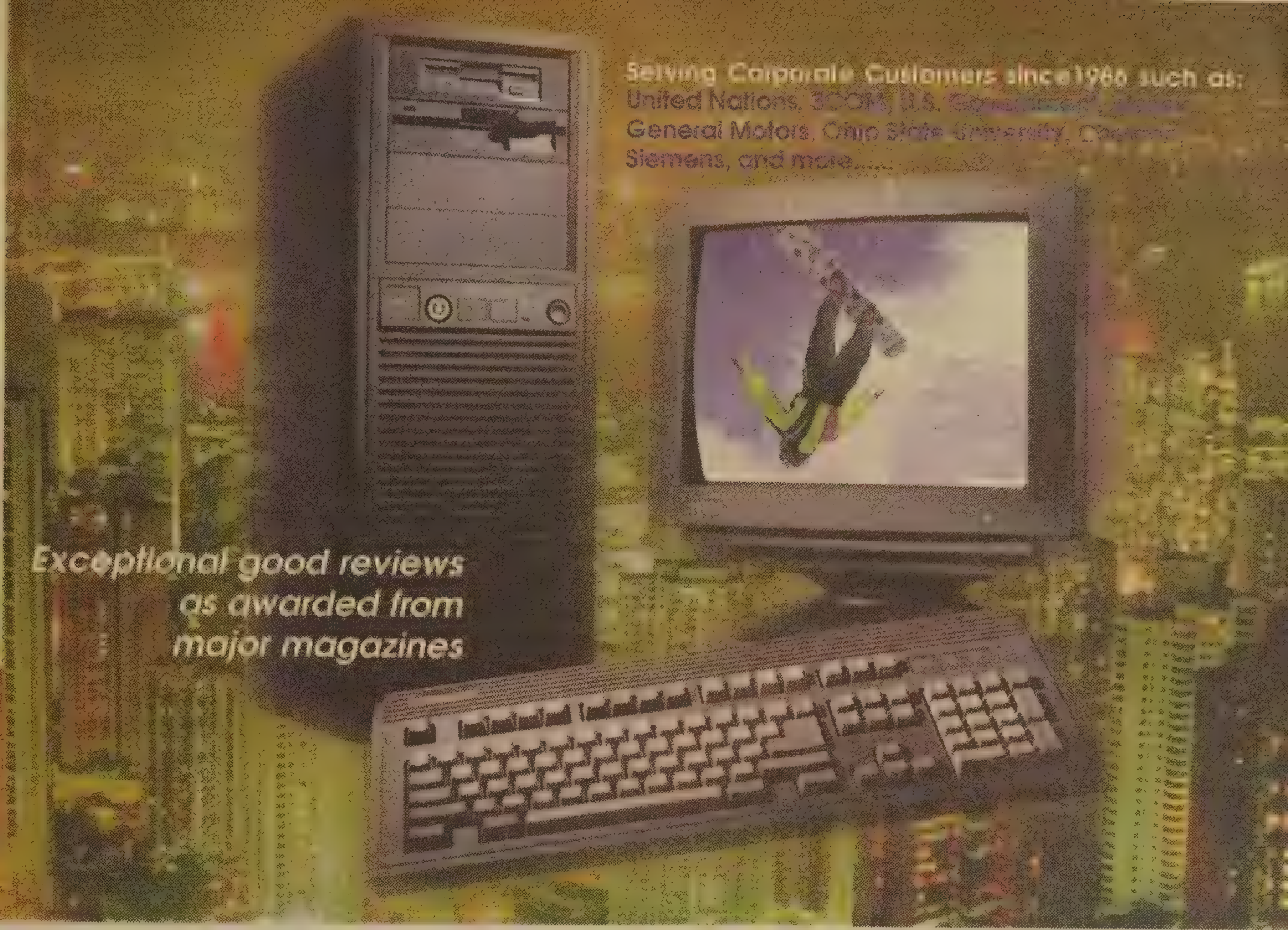

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each service pay for everything, just as it would be silly to try to charge only the people using a particular street for the street's maintenance. Everyone gets value from widespread and diverse Internet services, just as entire cities get value from a particular street's existence, and from the connection to the streets in neighboring cities.

But that doesn't mean that we should think of either as free, and we certainly shouldn't be surprised in the coming years when the government decides to shoulder less of the Internet's cost and demands that the various people getting financial benefit from it contribute more.

Netscape Stumbles On Security Bug

In what could have been a major disaster for Internet commerce, two graduate students at UC Berkeley discovered a major flaw in the way that Netscape's popular Web browser protects supposedly secure conversations between Web users and merchants. The only reason this did not cause more damage is that very few companies are actually using the Web to perform commercial transactions such as accepting credit cards. Netscape was able to fix the design flaw and distribute new versions of the software in a bit over a week.

> This security flaw points out that while Internet commerce is certainly feasible, it's not clear if there are enough safeguards in place today to make it generally as safe as our current methods.

Netscape's Navigator browsers start encrypted sessions with commerce servers by choosing a random number as the basis for each session's security. Anyone trying to watch what you say during the session (such as your credit card number or your bank account's PIN) needs to be able to decrypt it.

They can copy the session to their hard disk and try a series of

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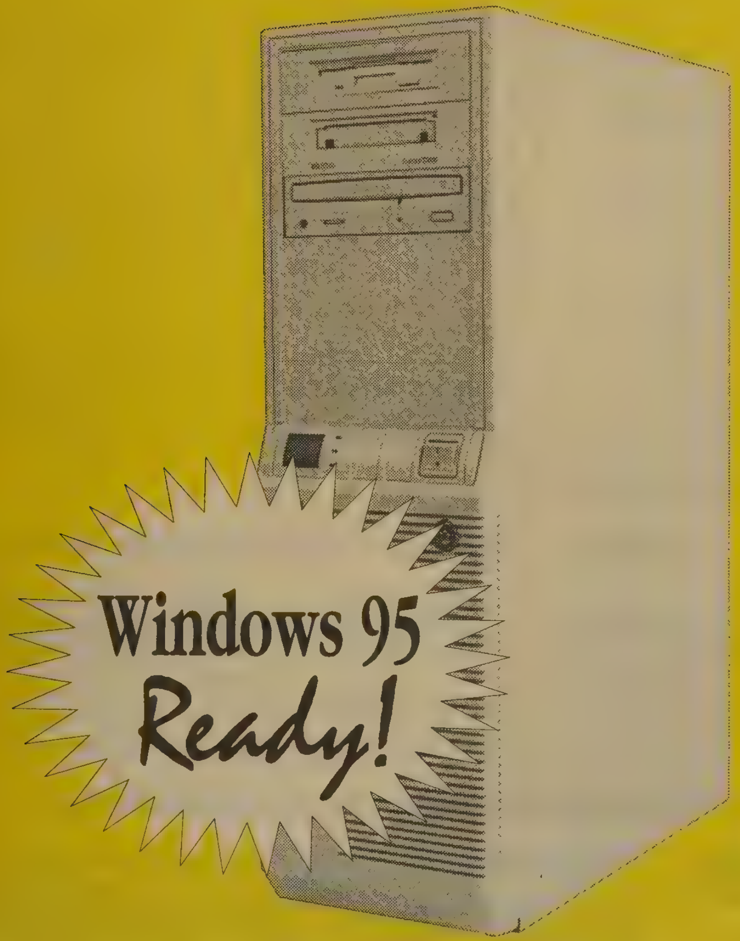

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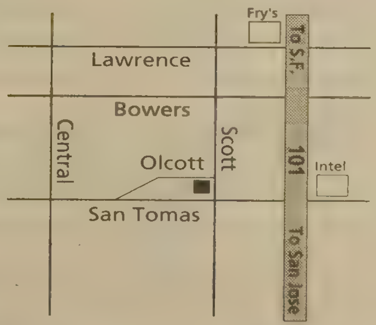

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REALIZABLE FANTASIES • BY JIM WARREN

Responsive Government The Impossible Dream?

I wonder when we will have government decision-makers who lead—instead of resist—"the information society"?

Modern Voter Registration

Next year, this state's primary elections will occur in mid-March—a change from the June primaries of the past.

It's time that California's Secretary of State Bill Jones (R-Fresno) made voter registration affidavits available online, so they can be printed, completed, signed, and returned the old-fashioned way—at least until digital-signature standards are adopted as mandated under Debra Bowen's AB 1577 (awaiting Gov. Wilson's signature at press time).

These voter affidavits are the forms that one fills out in order to register to vote.

Jones appears to have the authority to do this under Election Code Section 2161. It says the Secretary of State "shall print or *cause to be printed*" the registration forms [italics added].

Until Congress passed the federal Motor Voter Registration Act, the Secretary of State spent mega-loot to print all registration forms and distribute them to county Registrars of Voters. However, he has already authorized the Department of Motor Vehicles to print forms on their own, perhaps by computer, and there appears to be absolutely no reason he couldn't authorize *anyone* to print fixed-format affidavits, made available from his home-page and by ftp from his Internet host—*secstate.public.ca.gov*—that's been operating for about a year (by publication time, they will probably have opened their new Web page and net site at *ss.ca.gov*).

There's a minor whine that the affidavits are serial-numbered, but (a) the Secretary's site could be programmed to modify the number upon each successive request; (b) the state apparently doesn't use the number anyway; and (c) those county Registrars that want numbers for their internal operations could generate their own numbers—if Jones would permit it.

Send your comments to *comments@ss.ca.gov*, or by fax to Bill Jones at (916)653-4620.

Washingtoontown Zoo

1. I had some momentary delusions of hope when Newt and the "reformers" (or deformers, opinions vary) took over Congress. Like the kids in the White House, Gingrich could actually spell "computer" and mouthed great platitudes about making all Congressional information publicly available in a *timely* manner via the net—a project that was already bumbling forward under those previously in control.

And the system probably *did* become operational a bit more quickly under Newt's whip-hand, even if Newt did name it "Thomas" after his powerful political pal, Bill Thomas (R-Bakersfield).

[The official propaganda says it was named after Thomas Jefferson, but everyone I've talked to in DC understands that it was really an ego payoff for Newt's key supporter. What's worse, Newt took oversight of the system away from Vernon Ehlers (R-Michigan), one of the few members of Congress who has a strong technical background and actually *understands* computers.]

But Newt's *substantive* hypocrisy is that some of the most important legislation in the House—Republican budget bills—is in the hands of favored special interests and political insiders but is *not* available on Thomas in a timely manner, even though it is *highly* time-sensitive due to very limited hearing and debate schedules.

I.e., the Republi-crats are using the same arrogant tactics as the Demo-publicans before 'em. (When folks snarl about the huge national debt run up under Reagan, remember that the

Newt's *substantive* hypocrisy is that some of the most important legislation in the House—Republican budget bills—is in the hands of favored special interests and political insiders but is *not* available on Thomas in a timely manner, even though it is *highly* time-sensitive due to very limited hearing and debate schedules.

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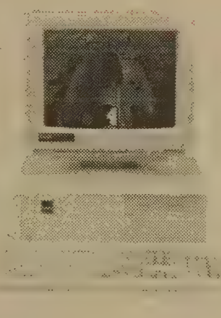

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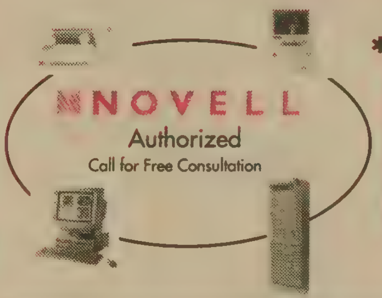

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Fantasies *continued...*

President can only spend what Congress appropriates!)

2. Newt has a pocket nonprofit foundation, the Progress and Freedom Foundation (*pff@aol.com*). PFF hustled big bucks from special-interest donors—mostly Microsoft and telecom giants that have bought "reform" legislation, allowing them to re-create government-supported cartels. PFF used some of that loot to fund August's Aspen Summit on cyberspace policy—at the wealthiest hotel in Colorado's wealthiest playground.

The two-day roundtable pulled together a stellar array of about thirty participants. They also permitted several hundred of the great unwashed to politely observe while the elite palavered (I was among the former).

PFF's Aspen Summit was an *appalling* waste of potent talent. For two entire days, they did *nothing* except exchange vague, philosophical, hand-waving fru-fru, appropriate for some sophomoric dinner chat in a college dorm.

It's clearly time to escalate our faxes to congress-critters demanding that we be presumed innocent; that we *not* be required to deposit the keys to our privacy with government agents; and that US software publishers be permitted to distribute, internationally, crypto programs that are at least as strong as those that are already available and in use worldwide.

Nonetheless, there were some entertaining sound-bites:

•"More than information have-nots, we have information *want*-nots." (PFF's Jeff Eisenach)

•"If we don't want government control, we must develop internal controls." And later, "Freedom is a *means*; not an end. The Bill of Rights is not self-executing." (Congressman

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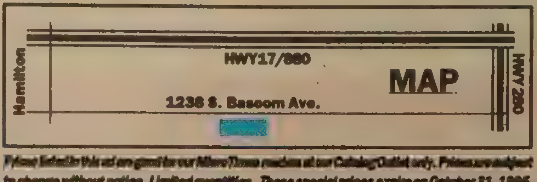

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Fantasies *continued...*

Vernon Ehlers)

•"Don't solve problems; pursue opportunities." (George Gilder)

•"Rights of individuals are limited by rights of others." (Esther Dyson)

•"Government can be egalitarian by impoverishing everyone equally." (Peter Huber)

•"The net can lubricate markets, allowing supply and demand to interact more easily, and those who lubricate markets want a piece of the action." (General Magic's Marc Porat)

•"The net has been a gift economy for twenty-five years." (Stewart Brand)

•"Ethics wither in the context of regulation and law." (John Perry Barlow)

•"The Left views good as repressed evil; the Right views evil as repressed good."

The free marketeers spent much of one multihour session talking about the need for "freedom"—without ever once using the word "responsibility." One market absolutist implied that the 1929 stock crash had nothing to do with the Great Depression and repeatedly espoused that the marketplace is benign—i.e., never harmful!

Partway into the second day, during a brief moment when the unwashed were permitted to ask questions of the elite leaders, I pleaded that they discuss some of the *substantive* public policy issues that are looming over our heads – e.g., telecom cartels vs. *real* telecom competition, federal crypto policy vs. privacy protection, freedom of expression vs. government censorship proposals, freedom to innovate vs. the Clinton administration's zeal for corporate patenting of every thought.

And near the end, they actually permitted Jerry Berman from the Center for Democracy and Technology (*info@cdt.org*) to join the roundtable long enough to voice the same plea for substantive discussion of major real-world policy issues.

The moderator and PFF leaders completely ignored them. And this is the think-tank that's supposed to be one of Newt's key advisors on the information revolution!

3. While in DC in September, I had dinner with a security type, high up in the Department of Defense.

You will be happy to know that the National Security Agency never spies on American citizens, foreign or domestic. And the administration's recently resurrected Clipper-chip/Capstone demands are going to be defeated—that's the deal where cryptography users worldwide are to give their keys to a US government-approved escrow agent in case some agent wants to snoop 'n' peep, but only when authorized, of course.

Uh huh!

It's clearly time to escalate our faxes to congress-critters demanding that we be presumed innocent; that we not be required to deposit the keys to our privacy with government agents; and that US software publishers be permitted

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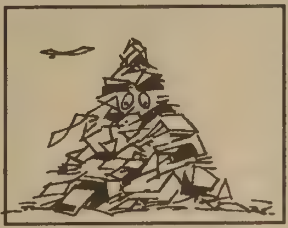

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Fantasies *continued...*

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to distribute, internationally, crypto programs that are at least as strong as those that are already available and in use worldwide.

Silicon Valley readers who care about privacy: A recent San Francisco newspaper article reported that Representative Anna Eshoo (D-Palo Alto) was *still* studying the matter, even though her constituents have been hammering her about it ever since 1992 candidate forums before her first election.

4. I also met with Jamie Love (*love@essential.org*), the phenomenally effective activist who runs Ralph Nader's Taxpayer Assets Project (*info@tap.org*), which has the audacity to espouse that government's public records are, in fact, a taxpayer asset, and should be available to the public for no more than the incremental cost of copying.

After cracking open the Security and Exchange Commission's computerized EDGAR system for free Internet access and bludgeoning Janet Reno's Justice Department into standing up to big-bucks lobbying by West (lawbook) Publishing's efforts to monopolize federal case-law, he's now trying to get the Air Force to release electronic copies of a half-century of federal case law that they began computerizing in the late 1960s.

Ignoring Clinton's theoretical policy that computerized public government records should be available to the public from the agency that originated their computerized form, the Err Farce has stonewalled all efforts to obtain such copies. They say the taxpayers should go to the lawbook publishers for those public records.

And Clinton, being merely the president and commander-in-chief, has been powerless in getting his militia to follow his policies. (But at least he replaced the Bush White House's rotary phone system with touch-tone units.)

It's obviously time for a new political party or two to replace these Beltway mental geriatrics, just as the Republicans and Democrats replaced the Whigs and Tories in the last century!

Blather-To-Be

Jim Warren will be speaking about net-aided government access and technology-related civil liberties at the Internet Ethics Symposium, UC-B, Berkeley, CA, Nov. 18 (*info: jef@unx.berkeley.edu*). ■

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News and Views

Letters

Just In Time—Not! Or, The Joys Of Print

I would like to thank you, and particularly Tony Reveaux, for the nice review of my book, *Virtual Reality and the Exploration of Cyberspace*, which appeared in his "Blue Screen VR" column [Issue #140]. I regret to inform you, however, that the book has been out of print for more than a year. The publisher, having sold out the first printing, elected to not reprint this book. The reason given at the time was that they thought that sales were declining, not just for that book but for all their VR titles generally, and that VR was "last year's news."

This was at the same time that the book had just been selected as a Main Fall Selection by Newbridge for their PC User's Book Club. While the book is no longer available through regular retail channels, Newbridge purchased a few thousand copies for resale and may still have some left. I have only a few extra copies left myself. I should also add that DIASPAR Virtual Reality Network has, for the moment, ceased operations, so that part of the software on the included disk is essentially worthless at this point.

Naturally, since I spent thirty months writing this book, I was not happy to see it go out of print after thirteen months, but the fact that it did says as much about the fragility of such information as it does about modern book publishing. The product/life cycle of traditional book publishing is such that, in some regards, the book was obsolete the day it was published. Indeed, VR as a field has moved so fast that I have decided that not even a second edition is a viable possibility at this point. I would have to start fresh on a completely new book. To date, no publisher has been willing to give me the considerable advance that I would need to do this. This does not mean that the book is completely without value. Much of the information is basic, historical, and conceptual to the field—it will never go out of date.

Electronic forms of publishing beckon, but there seems to be no way to get paid for the work—especially the constant updating that would have to be done to keep the information current. Such work is labor intensive, and while the book was well received, it was not widely reviewed. Had your review come within six months of publication it might have helped keep the book in print. But, as I said, I appreciate the review.

Francis Hamit
North Hollywood

What Happened To The Personal Computer?

I have just finished reading several articles in Issue #141 of *MicroTimes* and they have reminded me of some of my gripes.

Somewhere the industry has forgotten what the PC is. It is a Personal Computer for personal computing and personal use. They have forgotten that most of the computers are sold for home use and shortly consigned to the closet because of the useless complexity and cost of the software.

I have owned a computer since the first TRS 80 Model 1 came out and one or two

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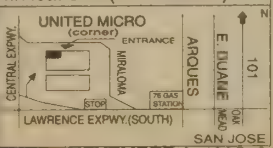

home-brew ones before that. Our office loaded up with IBMs when they came out and I have used WordPerfect since v3. With spreadsheets I started out on VisiCalc; the first database I used was a cassette tape one for the TRS 80. The first word processor I used was Electric Pencil, then Scripsit, both on cassette tape.

Today I use WordPerfect 6.0a for Windows and I only use about 2% of its capabilities. Why can't WordPerfect make a good, small word processor without all the frills, and if you want the frills let you purchase them separately as add-ons? They included Grammatik, something I never use, but I sure could use a good disk version of Merriam-Webster's *Collegiate Dictionary.* I need all those fonts, templates, and a number of other features like I need a sore toe. I just wish they would clean up some of the bugs in their old 4.2, and I would gladly go back to DOS.

I plan to stay as far away from Windows 95 as possible for as long as possible. The only reason that I went to Windows 3.1 was because I was forced to by the software. If I could find good software for DOS that was kept up to date with modern drivers I wouldn't touch Windows. I would still be using Lotus 1-2-3 v1a if I could get drivers for my printers. Version 2 was terrible and the Windows version even worse.

Most of the Internet is great, but after trying WWW for a couple of months I have decided to put it on the same garage shelf with my pet rock and hula hoop.

Multimedia is great for CD-ROMs such as encyclopedias, but as far as video goes, it stinks. Who wants to watch video on a computer anyway? That is what I have a 52" TV for. Who needs stereo sound on a computer? Terrible place to listen to music.

I am afraid that if the direction doesn't change and soon, that when my present equipment becomes obsolete I will just chuck it and go back to my typewriter and maybe my old fountain pen and pencil.

Tom Ferris
Rowland Heights
via Internet

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○ 133 ○ 120 ○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40

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CACHE ○ 64K ○ 128K ○ 256K ○ 512K

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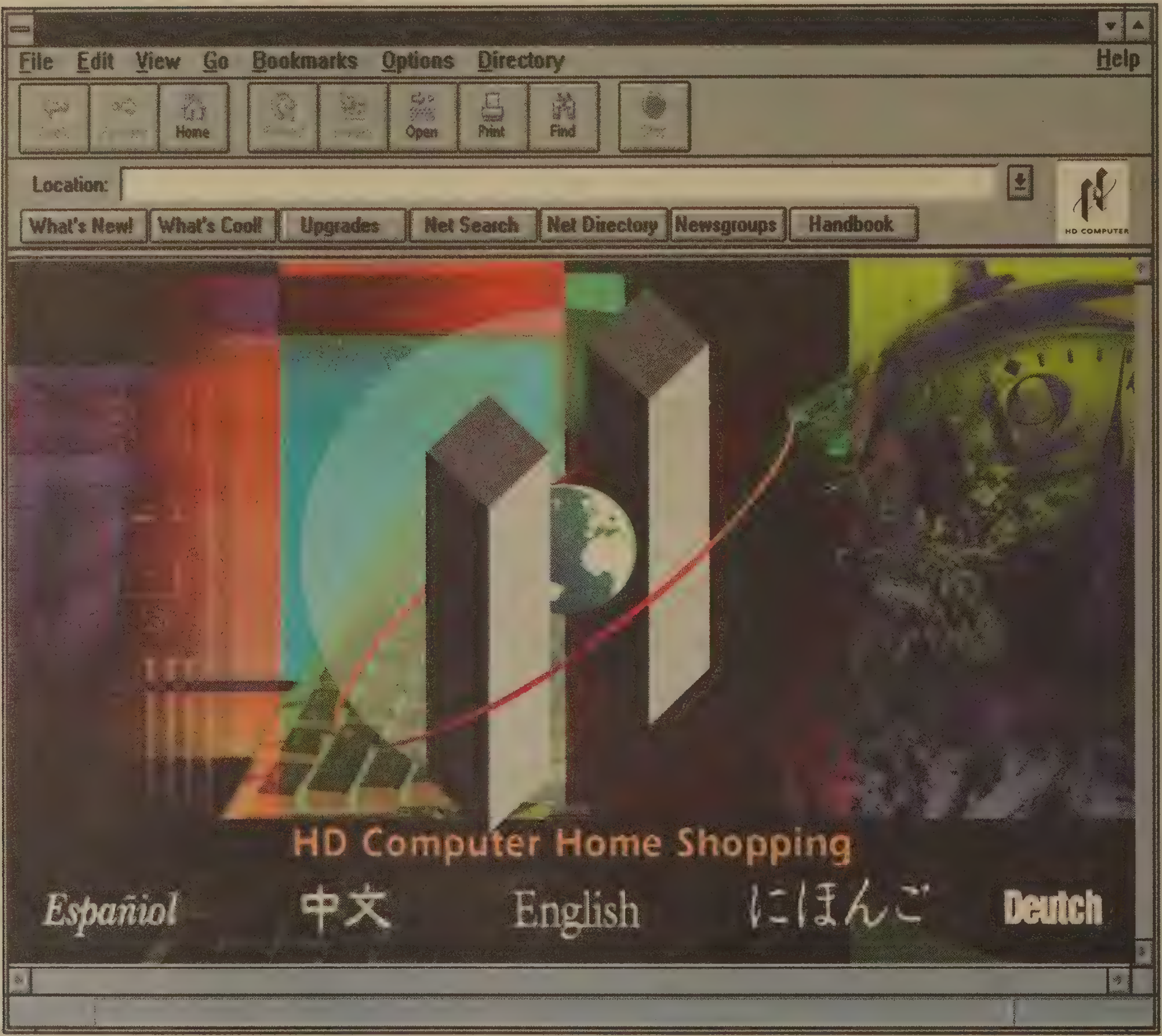
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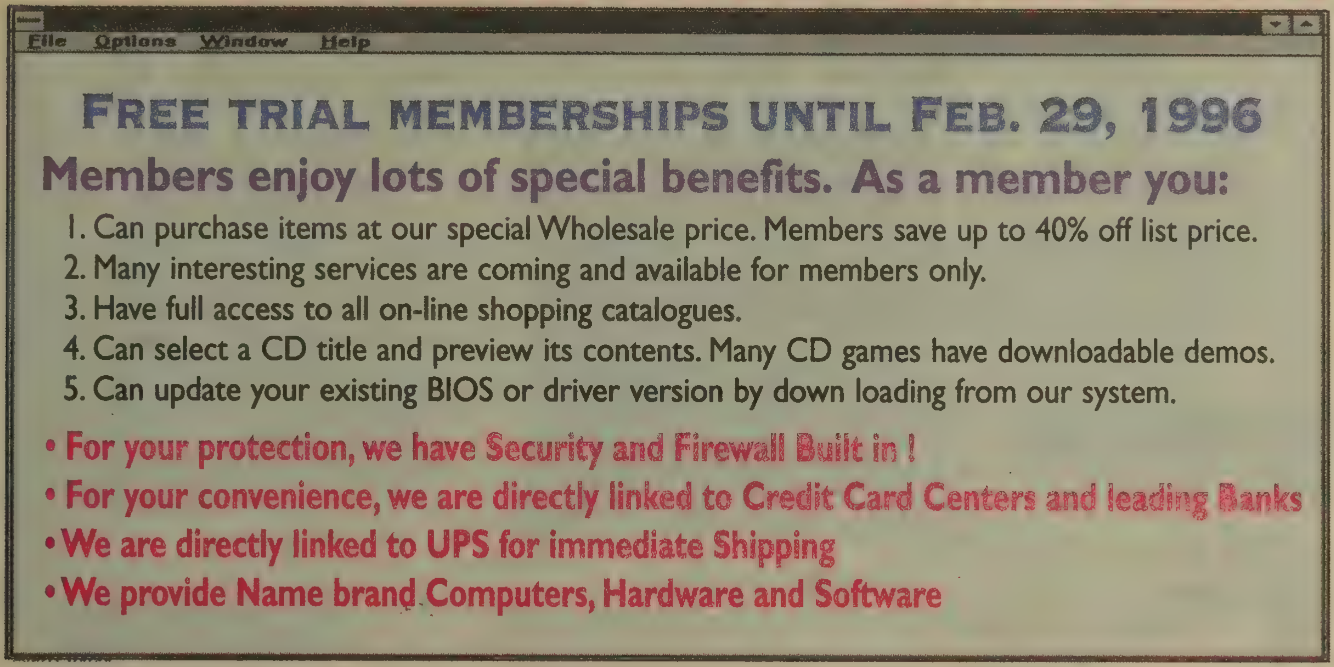

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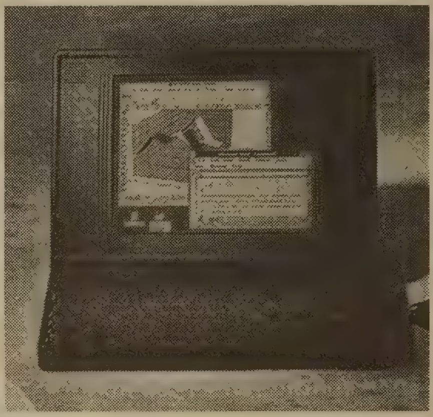
HEWLETT PACKARD

HP OMNIBOOK 4000CT

- INTEL 486DX4-100 MHZ CPU
- 8MB RAM EXP TO 40MB
- 810MB HDD/16 BIT SOUND
- 10.4" ACTIVE MATRIX COLOR
- TRACKBALL/STEREO SPEAKERS
- 7.3LBS/3 YEAR WARRANTY

$3665 *PN F1097A*



HP OMNIBOOK 5000C

- INTEL PENTIUM® 90MHZ CPU
- 16MB RAM EXP TO 40MB
- 1GB/HDD/16 BIT SOUND
- 10.4" ACTIVE MATRIX COLOR
- TRACKBALL/STEREO SPEAKERS
- 7.3 LBS/3 YEAR WARRANTY

$6295 *PN F1131A*

Microsoft Office 4.3 $340
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HEWLETT PACKARD

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• HP DESKWRITER 320	**$295.00**
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• HP DESKJET 1200c	**$979.00**
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• HP DESKJET 1600c	**$1349.00**
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• HP LASERJET 4PLUS	**$1395.00**
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• HP LASERJET 4MV	**$2695.00**
• HP LASERJET 4V	**$1895.00**
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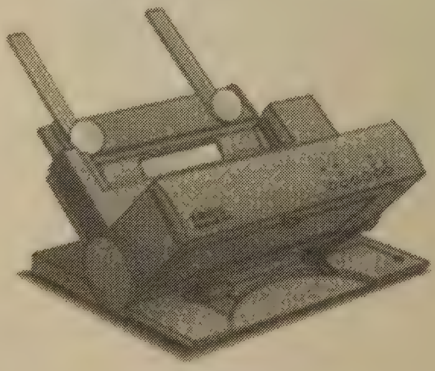

HP DESKJET 340

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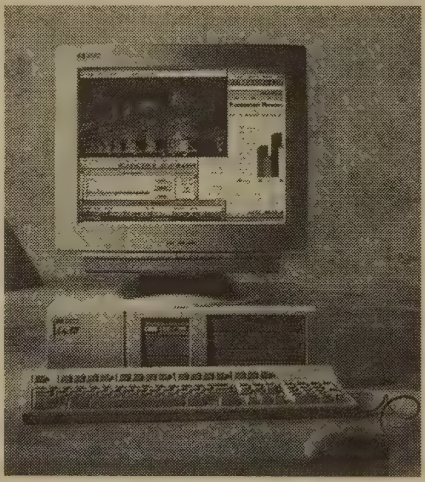
HEWLETT PACKARD

HP DESKTOP SYSTEMS

VECTRA VE PENTIUM®

- INTEL PENTIUM® 75/90MHz CPU
- 8MB RAM EXP TO 192MB
- 540MB HDD/1.44 FDD
- 1MB 64 BIT SVGA CARD
- HP KEYBOARD & MOUSE
- MS WINDOWS '95 (MONITOR NOT INCLUDED)
- 3 YEAR LIMITED WARRANTY

75MHz **$1549** *D3392A*
90MHz **$1795** *D3415A*



Microsoft Office 4.3 $340
** Only w/system sale*

VECTRA XM3

- INTEL PENTIUM® 75/90/120/133MHz CPU
- 8MB RAM EXP TO 192MB
- 840MB HDD/1.44 FDD
- 1MB 64 BIT SVGA CARD
- 32 BIT ETHERNET CARD
- HP KEYBOARD & MOUSE
- MS WINDOWS '95 (MONITOR NOT INCLUDED)
- 3 YEAR LIMITED WARRANTY

75MHz	**$1849**	*D3482A*
90MHz	**$2095**	*D3485A*
120MHz	**$2529**	*D3562A*
133MHz w/16MB	**$3159**	*D3950A*

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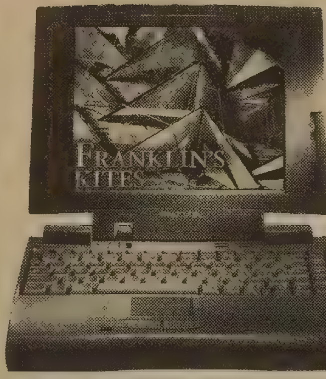

NEC VERSA 2000D

NEC VERSA 2000 D

- 486DX4-75MHz
- 4MB EXP to 36MB
- 350MB HDD/1.44 FDD
- 10.4" DSTN VGA
- 2 Type II or 1 Type III PCMCIA
- MS DOS & Windows for Workgroups
- Versa Glide Touch Pad
- 6.3 lbs

$1949 *PN11530*

NEC VERSA 2000 C

- 486DX4-75 MHz
- 8MB EXP to 40MB
- 350MB HDD/1.44 FDD
- 9.5" TFT VGA
- 2 Type II or 1 Type III PCMCIA
- Internal 14.4 Fax Modem
- MS DOS & WFW
- Versa Glide Touch Pad
- 6.5 lbs

$2539 *PN11535*

AUTHORIZED RESELLER

NEC VERSA 4000C

NEC VERSA 4000 D

- Pentium® 75MHz
- 8MB EXP to 40MB
- 540MB HDD/1.44MB FDD
- 10.4" DSTN VGA
- 2 Type II or 1 Type III PCMCIA
- 16 Bit Sound & Speakers
- MS Windows 95
- Versa Glide Touch Pad
- 6.3 lbs

$3399 *PN11550*

NEC VERSA 4000 C

- Pentium® 75MHz
- 8MB EXP to 40MB
- 540MB HDD/1.44MB FDD
- 10.1" TFT VGA
- 2 Type II or 1 Type III PCMCIA
- 16 Bit Sound & Speakers
- Internal 14.4 Fax Modem
- MS Windows 95
- Versa Glide Touch Pad
- 6.6 lbs

$3899 *PN11560*

Microsoft Office 4.3 $340
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IBM 701C

IBM THINKPAD 701C

- 486DX4-75CPU
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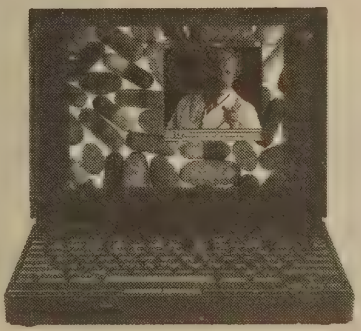
- DOS/Windows/Lotus Organizer, etc...
- 3 Year Int'l Easy Server Warranty
- 4.5 lbs

***DUAL SCAN* $3495** *26205SU*
***ACTIVE MATRIX* $3995** *26305TU*



IBM 755CX

IBM THINKPAD 755CX

- Pentium 75MHz CPU
- 8MB RAM Exp to 24MB
- 540MB HDD/1.44MB FDD
- 10.4" Active TFT Display
- Full Size 85 Key Keyboard
- DOS/Windows & OS/2 Warp
- 3 Year Int'l Easy Server Warranty
- 6.1 lbs

$4495 *9545SBJ*

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ActionNote 880C
- 486DX2-80MHZ CPU
- 8MB RAM EXP TO 24MB
- 340MB HDD/1.44MB FDD
- 10.3" DSTN COLOR/1MB SVGA
- 14.4 FAX MODEM
- 16 BIT SOUND
- MS DOS/WINDOWS
- 6.0 LBS

$2295 *A544201*

ActionNote 880CX
- 486DX2-80MHZ CPU
- 8MB RAM EXP TO 24MB
- 700MB HDD/1.44MB FDD
- 10.4" TFT COLOR/1MB SVGA
- 14.4 FAX MODEM
- 16 BIT SOUND
- MS DOS/WINDOWS
- 6.0 LBS

$3295 *A536211*

**** Microsoft Office 4.3 $340***
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TOSHIBA NOTEBOOKS

TOSHIBA T2110CS
- INTEL 486DX4-75MHZ CPU
- 4MB RAM EXP TO 28MB
- 330MB HDD
- 10.4" DSTN COLOR/1MB SVGA
- ACCUPOINT MOUSE

$1995 *PA1208U-52A*

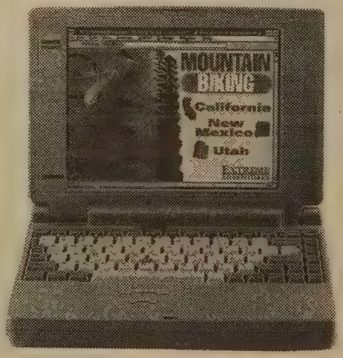
T2110CS

TOSHIBA T2150CDS
- INTEL 486DX4-75MHZ CPU
- 4MB RAM EXP TO 28MB
- 520MB HD
- 10.4" DSTN/1MB SVGA
- ACUPOINT MOUSE

$2895 *PA1184U-52A*

TOSHIBA T2130CT
- INTEL 486DX4-75MHZ CPU
- 8MB RAM EXP TO 28MB
- 520MB HDD
- 10.4" TFT COLOR/1MB SVGA
- ACCUPOINT MOUSE

$3029 *PA1198U-T2A*



T2130CT

TOSHIBA PORTEGE T610CT
- INTEL PENTIUM 90MHZ CPU
- 8MB RAM EXP TO 40MB
- 720MB HDD
- 9.5" TFT COLOR/1MB SVGA
- 16 BIT SOUND CARD

$4295 *PA1123U-T9A*

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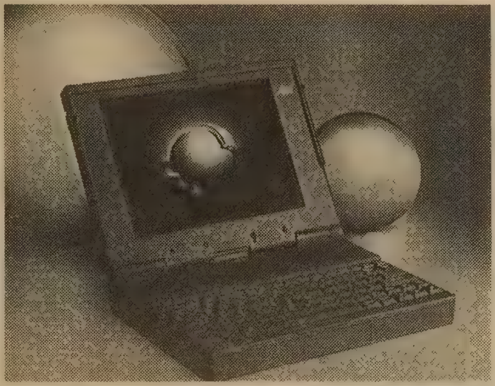
AST NOTEBOOK

ASCENTIA 910N

- 486DX4-75MHZ CPU
- 8MB RAM EXP TO 32MB
- 510MB HDD
- 10.3" DSTN/TFT COLOR
- MS DOS/WINDOWS
- 3 YEAR WARRANTY

DUAL SCAN	*$2395*	*501590-301*
ACTIVE MATRIX	*$2995*	*501589-301*



ASCENTIA 950N

ASCENTIA 910N

ASCENTIA 950N

- INTEL PENTIUM® 75 MHZ CPU
- 8MB RAM EXP TO 40MB
- 810MB HDD
- BUILT-IN SOUNDBLASTER 16
- 10.4" DSTN/TFT COLOR
- MS DOS/WINDOWS
- 3 YEAR WARRANTY

DUAL SCAN	*$3079*	*501707-301*
ACTIVE MATRIX	*$4079*	*501708-301*

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AcerNote LIGHT

INTEL 486DX4-75MHZ CPU

- 8MB RAM EXP TO 32MB
- 420MB HDD/1.44MB FDD
- 10.4" DSTN COLOR/1MB SVGA
- ERGONOMIC TOUCHPAD
- MS WINDOWS '95
- 5.0 LBS
- 3 YEAR LIMITED WARRANTY

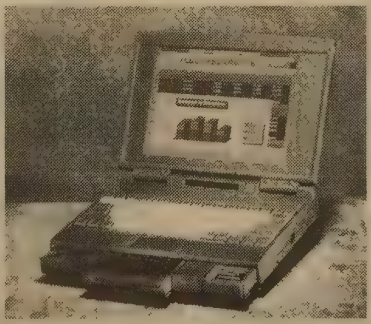
$1990 *352*

AcerNote PRO

INTEL PENTIUM 75 MHZ CPU

- 8MB RAM EXP TO 40MB
- 540MB HDD/1.44MB FDD
- 10.4" DSTN/TFT COLOR
- 1MB PCI SVGA
- ERGONOMIC TOUCPAD
- MS WINDOWS '95
- 6.4 LBS
- 3 YEAR LIMITED WARRANTY

DUAL SCAN	*$2409*	*954*
ACTIVE MATRIX	*$2909*	*957*



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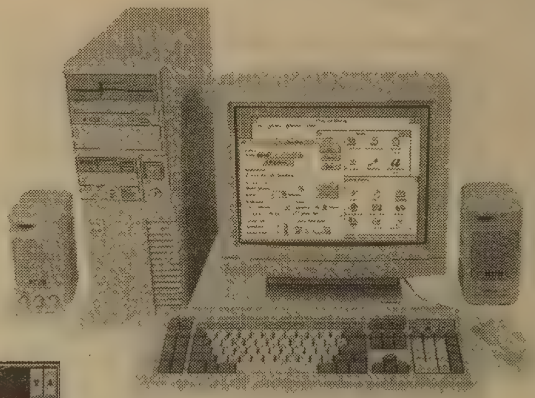

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PC MAGAZINE

" THE VICTORIA P133 IS A BETTER THAN AVERAGE SYSTEM FOR THE CORPORATE MARKET."

SEPTEMBER 16, 1995 ISSUE #16 - PC MAGAZINE

Victoria YELLOW (P133)

- Super Micro Motherboard
- Intel Pentium® 133MHz CPU
- Heat Sink & Cooling Fan
- 256K Pipeline Burst Cache (Expandable to 512K)
- 16MB 60ns EDO RAM Ram (Expandable to 128MB)
- Diamond Stealth 64 PCI Video Card W/2MB VRAM (Expandable to 4MB)
- IBM 1GB EIDE Hard Drive 10.5ms
- TEAC 1.44MB Floppy Drive
- Creative Labs Sound Blaster 16
- TOSHIBA XM-5302B EIDE QUAD Speed CD ROM Drive
- ACTIVE SP-935 160 Watt Speakers
- Mag DX 15F 15" Monitor
- Microsoft Mouse w/HD Mouse Pad
- Microsoft Ergonomic Keyboard
- Microsoft WINDOWS® 95
- Microsoft Office Professional 4.3 (CD Version)
- Microsoft Bookshelf
- Baby At Desktop Case w/250 Watt UL Power Supply

$3499

dow Help

Victoria GOLD

- Pentium® Chip-Based Motherboard with 256k Cache
- Intel Pentium® Processor & CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1.2GB EIDE Hard Drive
- MAG DX 15" Non-interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/2MB VRAM
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft WINDOWS® 95
- QUAD Speed EIDE CD ROM

75MHZ	***$1945***
90MHZ	***$2045***
100MHZ	***$2145***
120MHZ	***$2345***
133MHZ	***$2545***

**** Microsoft Office 4.3 $340***

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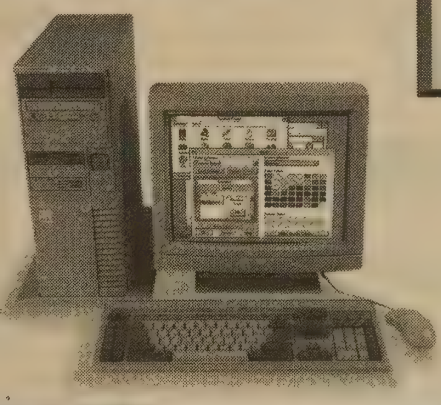

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Victoria GRAY

- Intel Zappa Triton MotherBoard with 256k Cache
- Intel Pentium® Processor and CPU FAN
- 16MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1.2GB EIDE Hard Drive
- 17" Non-Interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/2MB VRAM
- ON Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft WINDOWS® 95

Impression 4X Multimedia Kit

- QUAD Speed IDE CD ROM
- 16 Bit Sound Card & Stereo Speaker
- Encarta 95
- MS Works
- MS Money
- MS Entertainment Pack

75MHZ	**$2595**
90MHZ	**$2695**
100MHZ	**$2795**
120MHZ	**$2995**
133MHZ	**$3195**

*** Microsoft Office 4.3 $340***

** Only w/system sale*

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Victoria RED

- Intel Zappa Triton MotherBoard with 256k Cache
- Intel Pentium® Processor and CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1 GB SCSI Hard Drive
- 15" Non-Interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/2MB DRAM
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft WINDOWS® 95
- QUAD Speed EIDE CD ROM

75MHZ	**$1995**
90MHZ	**$2095**
100MHZ	**$2195**
120MHZ	**$2395**
133MHZ	**$2595**

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Victoria BLUE

- Pentium® Chip-Based Motherboard with 256k Cache
- Intel Pentium® Processor & CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 1.0GB SCSI Hard Drive
- MAG DX 15" Non-interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/2MB VRAM
- Adaptec 2940 PCI SCSI Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft WINDOWS® 95
- QUAD Speed SCSI CD ROM

75MHZ	**$2295**
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133MHZ	**$2895**

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10005 SAN PABLO AVE., EL CERRITO, CA 94530
EMAIL: hd@el.hdcomputer.com

SACRAMENTO
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2530 WATT AVE., SACRAMENTO, CA 95821
EMAIL: hd@sa.hdcomputer.com

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Tel: (209) 446-0809/FAX: (209) 446-0819
6481 NORTH BLACKSTONE AVE., FRESNO, CA 93710
EMAIL: hd@fn.hdcomputer.com

TERMS AND CONDITIONS: • 30 DAYS RETURN POLICY • 1 YEAR PARTS + LABOR WARRANTY • MAJOR CREDIT CARDS ACCEPTED • NO SURCHARGE FOR VISA, MC, AE AND DISCOVER CARDS • QUALITY PO'S ACCEPTED FROM ACADEMIC, CORPORATE AND PUBLIC INSTITUTIONS • APO'S WELCOME • SHIPPING CHARGE NOT REFUNDABLE • RETURN SHIPMENTS MUST BE INSURED, PREPAID AND BEAR AN RMA# ON THE SHIPPING LABEL • PRICE DOES NOT INCLUDE SHIPPING • PRICE ARE SUBJECT TO CHANGE WITHOUT NOTICE • COMPONENT WARRANTIES OFFERS AND CLAIMS ARE HANDLED BY THE MANUFACTURER • COMPONENTS COMPATIBILITY IS NOT GUARANTEED • NO RETURN ON USED ITEMS • ALL OPEN RETURNS ARE SUBJECT TO 15% RESTOCKING FEE • NO EXCHANGES OR REFUNDS ON CD'S WILL BE REPLACED WITH THE SAME ITEM ONLY... • ALLOW 14 DAYS TO PROCESS REFUND. • NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS. • ***PRICE GOOD THRU DECEMBER 31, 1995***

HD COMPUTER

Victoria™ Series

ON-LINE HOME SHOPPING

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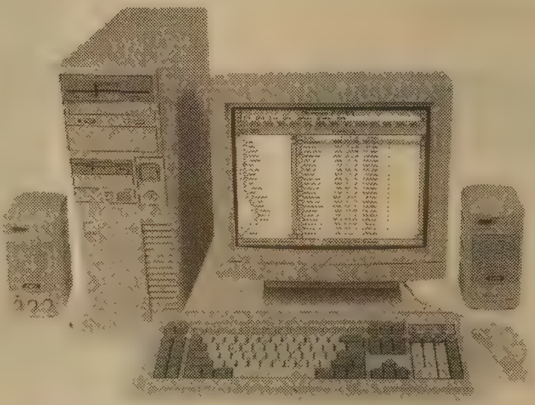
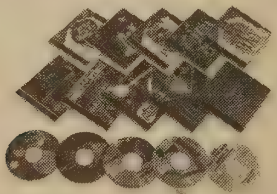
Victoria BLACK

- Asus 486 PCI VLB MotherBoard with 256k Cache
- Intel 486 Processor & CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 635MB IDE Hard Drive
- 14" Non-interlaced Monitor
- Spider Lynx 64 w/1MB
- ON Board PCI Enhanced IDE Controller
- 2-Serial Ports 1-Parallel Port
- Mini Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- 3 Button Serial Mouse
- Free Mouse Pad
- Microsoft WINDOWS® 95
- Quad Speed CD ROM

66MHZ $1295
DX4-100MHZ $1369
(AMD DX4-100 $1295)





**** Microsoft Office 4.3 $340***
** Only w/system sale*

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Victoria WHITE

- Asus 486 VLB MotherBoard with 128K Cache
- Intel 486 Processor & CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 635MB IDE Hard Drive
- 14" Non-interlaced Monitor
- 32-Bit VLB Graphic Accelerator Card W/1MB
- VLB 2H/2F IDE Controller
- 2-Serial Ports 1-Parallel Port 1-Game
- Mini Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- 3 Button Serial Mouse
- Free Mouse Pad
- Microsoft WINDOWS® 95
- Quad Speed CD ROM

66MHZ $1259
DX4-100MHZ $1329
(AMD DX4-100 $1259)

Web Site: http://www.hdcomputer.com

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1196 Kern Ave., Sunnyvale, CA 94086
EMAIL: hd@sc.hdcomputer.com

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WE CUSTOM BUILD ALL OUR SYSTEMS TO FIT YOUR NEEDS!

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- Intel Pentium Processor & CPU FAN
- 8MB Ram Exp. to 128MB
- 1.44MB Floppy Drive
- 635MB IDE Hard Drive
- 14" Non-interlaced Monitor
- Diamond Stealth 64 PCI Video Card W/1MB DRAM
- ON Board PCI Enhanced IDE Controller
- 2-16550 Serial Ports 1-Parallel Port
- Mid Tower Case w/230W Power Supply
- 101-KEY Enhanced Keyboard
- Microsoft Serial Mouse
- Free Mouse Pad
- Microsoft WINDOWS® 95
- Quad Speed CD ROM

75MHZ	**$1545**
90MHZ	**$1695**
100MHZ	**$1745**

ON-LINE HOME SHOPPING

**** Microsoft Office 4.3 $340***

** Only w/system sale*

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CUSTOMIZED SYSTEM CONFIGURATION (CSC)

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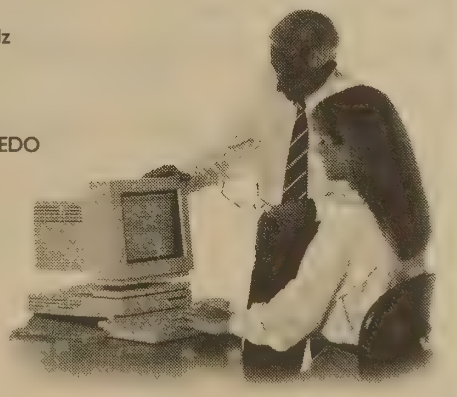
FAX: (408)720-1967
EMail: hd@sc.hdcomputer.com

FROM:____________________
Company Name:____________________
Name:____________________
TEL:____________________
FAX:____________________
EMail:____________________
PAGE_______**OF**_______

SYSTEM	☐ INTEL 486 ☐ AMD 486 ☐ INTEL PENTIUM
CLOCK SPEED	☐ 66 MHz ☐ 75 MHz ☐ 80 MHz ☐ 90 MHz ☐ 100 MHz ☐ 120 MHz ☐ 133 MHz ☐ 150 MHz
BUS FOR PENTIUM®	☐ PCI/ISAz ☐ PCI/ISA (Dual CPU) ☐ PCI/EISA (Dual CPU)
BUS FOR 486	☐ PCI/ISAz ☐ PCI/VL/ISA ☐ VL/ISA ☐ EISA/VL
CACHE	☐ 128 K ☐ 256 K ☐ 512 K ☐ 1 MB ☐ PIPELINE
MEMORY	☐ 4 MB ☐ 8 MB ☐ 12 MB ☐ 16 MB ☐ 24 MB ☐ 32 MB ☐ 64 MB ☐ 128 MB ☐ 256 MB ☐ EDO
CASE	☐ DESKTOP ☐ TOWER+230W ☐ MINI+230W ☐ MID+230W ☐ FULL+230W
KEYBOARD	☐ 101 KEY ☐ MS NATURAL ☐ 104 KEY
FLOPPY A	☐ 1.2 MB ☐ 1.44 MB ☐ DUAL/2.88 MB
FLOPPY B	☐ 1.2 MB ☐ 1.44 MB ☐ DUAL/2.88 MB
HARD DRIVE	☐ 540 MB ☐ 850 MB ☐ 1.0 GB ☐ 1.2 GB ☐ 2.0 GB ☐ 4.3 GB ☐ 9.0 GB
CONTROLLER	☐ IDE ☐ E-IDE ☐ SCSI ☐ PCI ☐ EISA ☐ VLB
I/O PORT	☐ 2S1P ☐ 2S1P1G ☐ 2S/16550/1P
VIDEO CARD	☐ MGP ☐ SVGA ☐ VLB ☐ PCI ☐ 1 MB ☐ 2 MB ☐ 4 MB ☐ 8 MB
MONITOR	☐ 14" ☐ 15" ☐ 17" ☐ 20" ☐ 21"
FAX MODEM	☐ EXTERNAL ☐ INTERNAL ☐ 1.44 K ☐ 28.8K
TAPE BACKUP	☐ EXTERNAL ☐ INTERNAL ☐ AT BUS ☐ DAT 2 GB ☐ DAT 4 GB ☐ SCSI ☐ 350 MB ☐ 700 MB ☐ 800 MB ☐ 1.4 GB
CD ROM	☐ EXTERNAL ☐ INTERNAL ☐ 4X ☐ 6X ☐ 8X
SOUND CARD	
MOUSE	☐ MICROSOFT ☐ LOGITECH ☐ GENERIC ☐ SERIAL ☐ BUS ☐ TRACKBALL
SOFTWARE	☐ WINDOWS 3.11 FOR WORKGROUP ☐ OS/2 ☐ WINDOWS 95 ☐ WINDOWS NT ☐ DOS 6.22 & WINDOWS 3.11
NETWORK	☐ ISA ☐ EISA ☐ VLB ☐ PCI
OPTIONS	____



MAKE AS MANY COPIES AS YOU NEED FOR FRIENDS AND COLLEAGUES. THANK YOU.

Simply circle or fill in the items you would like included in your system and fax it and HD will do the rest.

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HD COMPUTER

ON-LINE HOME SHOPPING

MULTIMEDIA

File Options Window Help

CREATIVE LABS

Blaster CD 4X
- Quad-Speed CD ROM Drive
- CD ROM Interface Card
- Audio Cable for Sound Blaster Audio Card
- Top-Selling CD Titles: Grolier Multimedia Encyclopedia, Quick CD

$229

Sound Blaster Value CD 4X
- Quad-Speed CD ROM Drive
- 16-Bit Upgradeable Stereo Sound Card
- Stereo Speakers
- Plus 11 CD Tiltes Including: Grolier Multimedia Encyclopedia, Chuck Yeager's Air Combat, Savage Empire and more

$299

Sound Blaster Digital Schoolhouse 4X
- Sound Blaster 16 Upgradeable Stereo Sound Card
- Quad-Speed CD-ROM Drive
- Stereo Speakers for Accurate Sound Reception
- 18 High-Quality Educational CD Titles for all age groups including: Grolie Multimedia Encyclopedia, Allie's Playhouse, Four Footed Friends and more

$349

Sound Blaster Discovery CD 4X
- 16-Bit Upgradeable Stereo Sound Card
- Quad-Speed CD ROM Drive
- High Quality Stereo Speakers
- 18 CD Titles including: Strike Commander, Syndicate Plus, Wing Commander II and more Titles for Games and Education

$369

Sound Blaster Multimedia Home 4X
- Sound Blaster 16 Upgradeable Stereo Audio Sound Card
- Quad-Speed CD-ROM Drive
- Stereo Speakers
- Microphone
- 24 CD Titles for Whole Famoly Including 11 Microsoft Home Titles: Encarta '95, Cinemania '95, Bookshelf, Musical Instruments

$429

Sound Blaster Performance 4X
- Sound Blaster 32 Wave-Table
- Stereo Audio Card
- Quad-Speed CD ROM Drive
- High Quality Stereo Speakers
- 24 Titles Including: NASCAR Racing, Decent Destination Saturn, Hong Kong Mahjong Pro and more

$419

DIAMOND MULTIMEDIA KIT

- Kit 5000 w/Quad-Speed CD-ROM
- 16-Bit, CD Quality Sound Card, Wave Table Upgradable
- 30 + Best Selling Titles
- Premium Stereo Speaker, Headphone and Microphone
- Quick Start Video for Easy Installation
- Works with all Sound Blaster Compatible Games

$379

- Kit 4000 w/Quad-Speed CD-ROM
- 16-Bit, CD Quality Sound Card, Wave Table Upgradable
- 11 Best Selling Titles
- Premium Stereo Speaker, Headphone and Microphone
- Quick Start Video for Easy Installation
- Works with all Sound Blaster Compatible Games

$295

- Kit 1000 w/Double-Speed CD-ROM
- 16-Bit, CD Quality Sound Card, Wave Table Upgradable
- 30 + Best Selling Titles
- Premium Stereo Speaker, Headphone and Microphone
- Quick Start Video for Easy Installation
- Works with all Sound Blaster Compatible Games

$295

IMPRESSION

- Impression 4X Upgrade Kit
- Toshiba 3501 SCSI CD ROM Drive
- Sound Blaster SCSI Sound Card
- MS Encarta '95
- MS Works
- MS Money
- MS Entertainment Pack

$499

- Impression 4X IDE Kit
- Teac 4X CD ROM Drive
- Sound Blaster 16 Basic
- MS Encarta '95
- MS Works
- MS Money
- MS Entertainment Pack

$369

SPEAKERS

• 160W Stereo Speaker	$69
• 50W Stereo Speaker	$39
• 25W Speaker	$35
• 10W Speaker	$23
• MLI-CP55 Speaker	$12

CD-ROM

NEC

NEC 3xp Plus	$399
NEC 4x Internal	$399
NEC 6xi Internal	$495

TOSHIBA SCSI II/IDE

4X 3601 Internal SCSI	$299
4X 5301 Internal SCSI	$220
4X IDE Internal	$169

PLEXTOR

4X INT SCSI II PX-43CH w/256K	$329
4X INT SCSI II PX-43CH w/1MB	$399
6X INT CD ROM	$469

TEAC

4X Internal CD-ROM	$169
4X Combo w/ Floppy	$220

PANASONIC

Panasonic Quad Speed	$199

SONY

CSD-760S 4X Speed SCSI w/Adaptec 1515	$299
PRD-A50 Portable CD ROM, CD Player	$399

MITSUMI Quad Speed CD-ROM $159

GOLDSTAR Quad Speed EIDE $149

SOUND CARD

Creative Labs

Sound Blaster 16 Basic	$89
Sound Blaster 16 SCSI 2/with ASP	$169/191
Sound Blaster 16 Value IDE	$109
Sound Blaster 16 MultiCD/with ASP	$129/165
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AWE 32	$269
Video Blaster RT200	$299
Video Blaster RT300	$339
Phone Blaster	$149

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Novell Authorized Reseller

Novell

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$525/1155/1825
3.12 5/10/25 User(Regular)
$595/1375/2095
4.1 5/10/25 User(OEM)
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4.1 5/10/25 User(Regular)
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DANPEX

PCI Ethernet Card	$129
EN-2400PB 16Bit BNC s/w	$42
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EN-2400P3 16Bit Combo 3-in-1	$47
EN-6200P2 1PCMCIA Combo	$150
EN-6000BT Pocket Lan 10BT	$135
EN-4001 4Port 10BT Hub	$125
EN-800A 8Port 10BT Hub	$155
EN-1212A 12Port 10BT Hub	$325
Modular Print-Server For Netware	$325

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INTEL

Etherexpress 16 16bit 5Pack/20pack	$575/1995
16bit Ethernet Combo PCLA 8100	$129
16bit Ethernet BNC PCLA 8110	$115
16bit Ethernet 10BT PCLA 8120	$115
16bit Ethernet Combo PCLA 8105/Flash	$159

3COM

3C509 Etherlink III Coax/TP	$117
3C509 Etherlink III 5pack	$528
3C590 PCI Combo	$165
3C595 PCI 10/100 10BT	$239

SMC

Ether card plus elite 16 Coax/TP	$119
Elite ultra 16bit Coax/TP	$115
Elite ultra 16bit 6pack/24pack	$675/2375
SMC Ultra 16 Bit Ethernet Combo	$135

COGENT DATA TECHNOLOGIES INC

PCMCIA UTP	$199
32-bit PCI Full Duplex Combo	$159
32-bit PCI Full Duplex UTP	$139
32-bit PCI 4-Port UTP Full Duplex	$529
32-bit 10/100 PCI Adapter	$199
16-bit ISA Adapter	$119

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MOTHERBOARDS

Micronics (W/O CPU)

90 MHz PCI /ISA Neptune 256K	$445
486 EISA E2 256K	$395
486 EISA/VLB 256K	$495
486 JX30 VLB/ISA 256K	$285
486 VLB/ISA 256K	$235

Asus (W/O CPU)

90 MHz EISA/PCI Dual Processor	$669
486 VLB/ISA SIS Green 128K	$119
486 VLB/ISA Support DX4 256K	$149
486 PCI VLB/256K	$149
Asus Pentium Triton 256K	$279
Asus Pentium Triton 256K Pipeline	$379

Intel (W/O CPU)

Intel Zappa Triton/8MB EDO RAM	$599
Intel Zappa Triton/256K MB	$299

CONTROLLERS

adaptec

1522A ISA/SCSI Fast w/Kit	$132
1542CF ISA/SCSI Bus Master w/Kit	$233
1542CF+ ISA/SCSI w/Corel Kit	$314
2742T EISA/SCSI 14HDS w/Kit	$359
2842VL VLB/SCSI Fast w/Kit	$259
2825VLK Fast SCSI w/E IDE	$259
2940 PCI/SCSI w/Kit	$259
2940W PCI/SCSI Wide SCSI w/Kit	$309
3940 Twin Channel PCI	$399
3940W Twin Channel PCI Wide	$479
PCMCIA SLIM SCSI	$289
SCSI AudioMachine™	$298
TotalCD™	$49
TotalConnect™	$89
TotalAdvantage™ VL	$159

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DIAMOND MULTIMEDIA

Stealth 64 Pro Video PCI/2MB VRAM	$299
Stealth 64 Pro Video PCI/4MB VRAM	$425
Stealth 64 PCI/VLB/2MB DRAM	$189
Stealth 64 PCI/VLB/1MB DRAM	$139
Viper Pro Video PCI/2MB	$429
Viper SE PCI/VLB/4MB	$425
Viper SE PCI/VLB/2MB	$329
Stealth 32 PCI/2MB	$149
Speed Star Pro PCI/VLB/1MB	$119
Stealth SE PCI 1MB	$109
Stealth SE PCI 2MB	$149

ATI TECHNOLOGIES INC.
Perfecting the PC

Graphics Ultra Pro Turbo 64 PCI/4MB	$459
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MATROX MGA POWER GRAPHICS

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#9GXe 64 PCI/VLB/2MB	$249
#9GXe 64 Pro PCI/VLB/2MB	$349
#9GXe 64 Pro PCI/VLB/4MB	$499
#9GXe 64 Pro-1600 PCI/VLB 2MB VRAM	$589
#9GXe 64 Pro-1600-100 PCI/VLB 4MB VRAM	$589
#9GXe 64 Imagine-128 PCI 4MB VRAM	$849
#9GXe 64 Imagine-128-1600 PCI 4MB VRAM	$1135
#9GXe Memory Upgrade from 2MB to 4MB	$199
#9 FX Motion 771 PCI/VLB 2MB/4MB VRAM	$289/439
#9 FX Vision 330 PCI/VLB 1MB/2MB DRAM	$139/189

Others

M.G.P. Card	$15
256K ISA/VGA	$35
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1MB DRAM Upgrade	$48
1MB VRAM Upgrade	$85

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CONNER

420MB INT/EXT	$139/279
850MB INT	$263
2525S Viper 525MB INT/EXT	$459/559
2750 1.3GB INT/EXT	$799/899

HEWLETT PACKARD

2.0GB	35470DAT	INT/EXT	$749/819
4-8GB	35480DAT	INT/EXT	$849/945
4-16GB	C1533A	INT/EXT	$999/1115
Mounting Kit			$35

EXABYTE

2.0GB	EXB-4200C	INT/EXT	$949/1035
5.0GB	EXB-8505	INT/EXT	$2069/2499
1.5GB	EXB-2501	2NT/EXT	$529/685

COLORADO MEMORY SYSTEMS INC.

Colorado Internal 700	$249
DJ-35 350MB/INT	$149
DJ-1400 1.5GB INT	$349
Trakker 350MB EXT	$329
Trakker 700MB INT	$379
T1000 400-800MB INT	$199
FC-20 Controller	$89
Power Tape PT-25 2GB/INT	$918
Power Tape PT-50 4GB/INT	$1109

FAX MODEMS

USRobotics

14.4K Fax Modem	
INT/EXT	$92/119
28.8 V.34 Fax Modem INT/EXT	$189/209
Courier 28.8 Modem	$389/419
USR Sportster si 144 INT	$69

Others

14.4 Internal Modem, Class I	$51
14.4 External Modem, Class I	$81
14.4 Internal w/Voice	$79
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28.8 V.34 External Modem	$169
14.4 PCMCIA	$165

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Microsoft Serial Mouse (OEM)	$28
Logitech First Mouse	$39
Logitech Mouseman	$55
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Logitech Trackball	$74
3-Button Serial Mouse	$9

KEYBOARD

101 Enhanced Keyboard	$29
Keytronic 101 Keyboard	$36
OMNI 101/102/Ultra	$98
Focus 9000 129 Key	$65
Focus 8000 111 Key	$55
Focus 2001 Click 101	$42
Prema-114 Keys Programmable w/MS-95	$49

MONITORS

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XV14 1024 x 768 .28 Flat	$325
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XV17 1280 x 1024 .28 Flat	$799
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XP15 1024 x 768 76HZ	$629
XE17 1280 x 1024 .28 Flat	$995
XP17 1024 x 768 76HZ	$1095
XE21 1028 x 1024 .28 76HZ	$1895
XP21 1600 x 1200 76HZ Opticlear	$2295

Sony

Sony 15SF 1280x1024 .25	$499
GPD 1425	$349
GDM-17SE 17"NI 1600x1200 .25	$1095
GDM-20SE 20"NI 1280x1024 .30	$1895
GDM-17SF 17"NI	$849

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445X 21"Ni 1600x1280 .26	$2195
447I	$739

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DX21F	$1799

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See The Difference!™

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V-21PS 21"NI 1600x1280 .26	$1749
20PS	$1529
15ES	$379

NANAO

F-2 15"	$569
F-2 17"	$879
F-2 17" EX	$995
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T-217TS	$1299
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F780iw 21"	$3195
TS-20	$1979

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Epson 17" 1280x1024 .28 DP	$649
Impression 14" 1024x768 NI .28 DP	$235
Proton 15" 1280x1024 .28 DP	$349
Proton 17" 1280x1024 .28 DP w/Built-in Speakers	$669
14" Mono Monitor	$95
14" Mono VGA Monitor	$119

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Business Solutions

LAPTOPS • BY ED KAHN

Keyboards And Windows 95

Two Programmable Keyboards To Improve Your Productivity

About a year ago, Microsoft came out with the Natural Keyboard, an ergonomic keyboard that looked weird but had design features unmatched by any other PC keyboard on the market. Basically, Microsoft designed a keyboard split into left and right sections. Each half could be rotated leaving an inverted V between the two parts. Overall, I liked this new design. But I had some reservations with its touch and feel and hoped someone would introduce a competing model that felt better.

SIIG WinTouch
Enhanced Keyboard
SIIG

Since the release of Windows 95, I have received two new keyboards that offer some of these features—in particular, the special Microsoft keys—although without the same ergonomic design. These keyboard are SIIG, Inc.'s WinTouch Keyboard and Uni Communications' Prema 114 Keyboard.

One of these Microsoft keys brings up the same list that you previously needed to type Control-Escape under Windows 3.1 or the Start key in Windows 95 to get. In any case, I find this new key a convenience and like these keyboards for this reason if for no other.

A second key is provided on the Natural Keyboard and its clones. This key is not really implemented at present, but the plans call for third-party vendors to utilize this as a shortcut key. So far, I have not seen any software that takes advantage of this feature. Even Microsoft has overlooked it. Originally, Microsoft announced that this key would be used once Windows 95 got rolling.

However, the other great feature of these keyboards is that you can assign specific programs to nine of the function keys. By pressing the Windows key and the space bar at the same time, you are taken into Task Manager. From there, you can program function keys F2 through F10 to call up programs that you want to be able to access without threading through the whole business of start, programs, etc. This feature is wonderful—giving an easy shortcut to the programs you use the most.

The first clone keyboard I received was the SIIG WinTouch. While it does not have the ergonomic features of the Microsoft Natural Keyboard, it does have the special keys and has a great feel. I know taste in keyboards is completely personal, and there is no accounting for preferences. All I can say is that I like the way the WinTouch feels and that I can type faster and more accurately on this keyboard than many others I have used.

This keyboard comes with an adapter so it can be used with either a PS/2 port or a conventional keyboard port. The layout is not perfect, by my reckoning, but then again it is pretty much what you get these days. The function keys are strung across the top of the keyboard and the Caps Lock key is to the left of the A key. There are two control keys located on both the right and left end of the bottom row of keys. The cursor keys are arranged as an inverted T located to the right of the main keys. A numeric keypad lives at the right side of the keyboard.

The second keyboard to cross my desk is also Windows 95 compatible, but offers a wide range of features not found on most keyboards. The Prema 114 has a conventional layout but comes with software that gives you a wide range of control over your keyboard.

I KNOW TASTE IN KEYBOARDS IS COMPLETELY PERSONAL, AND THERE IS NO ACCOUNTING FOR PREFERENCES. ALL I CAN SAY IS THAT I LIKE THE WAY THE WINTOUCH FEELS AND THAT I CAN TYPE FASTER AND MORE ACCURATELY ON THIS KEYBOARD THAN MANY OTHERS I HAVE USED.

The remapping feature lets you redefine any keys you wish to change. The most obvious use, for me, was to change the Caps Lock and Control keys back to the position I like. Other users might like to change the entire keyboard to a Dvorak layout or some other arrangement that suits their particular needs.

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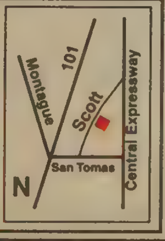

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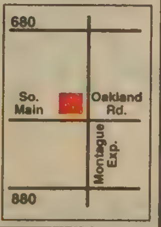

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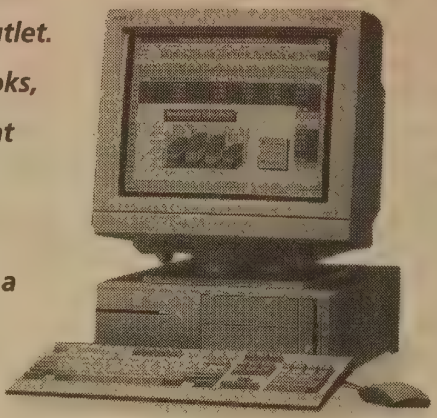

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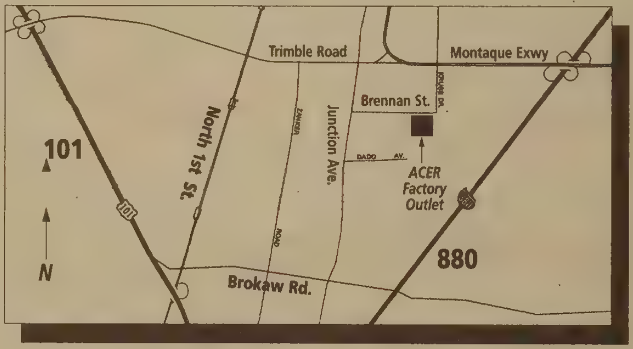

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Laptops *continued...*

A macro feature lets you set up sophisticated macros through the software. For instance, through the macro facility you can build in delays or have a string of words typed and then wait for your response before it goes on. The combination of macros and remapping makes this a particularly useful keyboard for users with impairments. A single key, for instance, can take the place of the familiar Control-Alt-Delete. Likewise, other routine combinations can be simplified through the macro facility.

In addition to making these changes through the software, you can also define macros on the fly. I find this more useful as I often like the convenience of assigning a macro to a word I use frequently in an article I am writing. For instance, in this piece, I might find it convenient to assign the word "keyboard" to a macro. Then, each time I have to type the word, I could simply hit Alt-K and the word would type for me. The real advantage of the software is that you can define different sets of macros that you might use with different programs. Also, you can define different sets of macros that different users might want. This is a sophisticated keyboard that offers lots of power to those who need these features.

While it is easy to see a use for this keyboard, for my money it is not necessary unless you have a specialized application in which you have dreamed of being able to define macros and remap the keyboard. The documentation that comes with the Prema 114 Keyboard is far below the standards of the keyboard itself. While much of the information is included, it was either poorly translated from another language or written by someone who did not have a good grasp of English. Furthermore, no mention is made in the documentation of Windows 95, despite the fact that these keys are included on the keyboard.

continued on page 52

RESOURCES:

WinTouch Keyboard, $59.99
SIIG, Inc.
6078 Stewart Ave.
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(510)657-8688
Prema 114 Keyboard, $69
Uni Communications, Inc.
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continued on page 52

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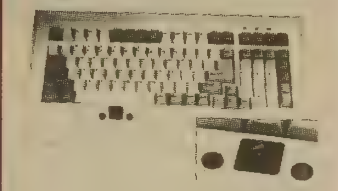

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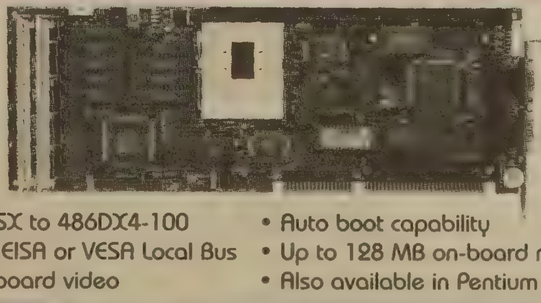

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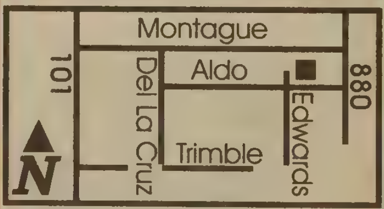

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- **Fujitsu 1.08 GB Fast and Wide SCSI** 9ms Hard Drive
- Adaptec 2940W Fast & Wide SCSI Controller (20MB/Sec)
- On Board PCI Bus Master IDE & Super Multi I/O (UARTs)
- **MATROX MGA Millenium 2MB Video w-RAM Technology Integrated MPEG, Video Accelerator & MGA Real Time 3D Graphics Video Card**
- **AWARD WINNING MAG 17"** .26 Flat Screen, Low Radiation **Digital Control** "Energy Star" Monitor
- **New Microsoft Natural Keyboard**
- **Enhanced Full Tower** Case w/265 W UL Power Supply

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PENMEDIA 9 MULTIMEDIA PACKAGE

- ✱**CREATIVE LABS SOUNDBLASTER AWE 32** Sound Card (Full Version)
- ✱**TOSHIBA Quad 3601B SCSI-2 CD-ROM Drive**
- ✱New **Lasonic 100W Hi-Fi AM FM Radio Speakers**
- ✱New **Microsoft Home CD Package: Microsoft Encarta '95 - Microsoft Works, Money & Entertainment Pak**
- ✱**Free Microsoft Mouse and Mouse Pad**
- ✱**Free Windows 95 w/Manuals &CD**

Free Windows 95 (Limited Offer)

PENTIUM 133	$4448
PENTUIM 120	$4278
PENTIUM 100	$4178
PENTIUM 90	$4128
PENTIUM 75	$4078

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PENMEDIA 9 TWIN

- EISA/PCI SMP Neptune Motherboard
- **2 (Twin) Pentium 100 MHzProcessors**
- **ZIF SOCKET** (Zero Insertion Force)
- **256K** Fast Cache
- **32 MB (72 pin) RAM** Ultra High Speed 60ns
- **Seagate 2.1GB Barracuda 7200RPM Fast & Wide SCSI Hard Drive**
- Adaptec 2940W PCI Fast & Wide SCSI-2
- 2 Hi Speed (16550 Fast UARTs) Serials and 1 Enhanced Parallel
- **MATROX MGA Millenium 2MB Video w-RAM Technology Integrated MPEG, Video Accelerator & MGA Real ....Time 3D ....Graphics Video Card**
- **17" IDEX VisionMaster .26 1600x1280 Monitor**
- **NEW Microsoft Natural Keyboard**
- **Enhanced Full Tower** Case w/265W ULPowerSupply
- **Toshiba 3601B Quad Speed 4x SCSI-2 CD ROM**
- Microsoft Mouse
- Mouse Pad
- **Free Windows 95 With Manuals & CD** (Limited Offer)
- **Creative Labs Soundblaster AWE 32** Value Sound Card
- **New LASONIC 100W Hi-Fi Amplified AM FM Radio Speakers**

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ACTION 5 PRO

- **Intel New TRITON CHIPSET** Pentium Motherboard
- **EPA** "Energy Star" Power Management
- Intel Pentium Chip Processor
- **ZIF Socket** (Zero Insertion Force)
- **256KB Write Back Static Cache**
- **8MB RAM** Installed **High Speed 60ns**
- NEC 1.44MB Drive
- **Western Digital 850 Enhanced IDE** Hard Drive 10ms
- On Board PCI BUS Master IDE and Super Multi I/O(UARTs)
- **Spider Lynx 64 Graphics** w/1MB RAM expandable to 2MB
- **AWARD WINNING "BYTE" BEST VALUE KFC 15"** Non-Interlaced Moniter .28 (1280 x 1024) LCD **Digital Control & EPA "Energy Star"**
- DELL 101 Enhanced Keyboard
- **Enhanced Medium TowerCase** w/230W (UL) Power Supply

Free Windows 95 (Limited Offer)

ACTION 5 PRO MULTIMEDIA PACKAGE:

- ✱**Creative Labs Soundblaster 16 Sound Card**
- ✱Double Speed (2X) CD-ROM Drive
- ✱*New* Lasonic 100W Hi Fi Amplified AM FM Radio Speakers
- ✱Free Microsoft Mouse v2.0 Ergonomic
- ✱**Free Windows 95 w/Manuals & Disk** (Limited Offer)

PENTIUM 133	$1968
PENTUIM 120	$1798
PENTIUM 100	$1698
PENTIUM 90	$1648
PENTIUM 75	$1598

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ACTION 5 ADVANCED

- **Intel New ZAPPA TRITON** Pentium Motherboard
- EPA "Energy Star" Power Management
- Intel Pentium Chip Processor
- **ZIF Socket** (Zero Insertion Force)
- **256KB Write Back Static Cache**
- **8MB RAM** Installed **High Speed 60ns**
- NEC 1.44MB Drive
- **Western Digital 850MB Enhanced IDE** Hard Drive 10ms
- On Board PCI BUS Master IDE and Super Multi I/O (UARTs)
- **Diamond Stealth 64 PCI** w/2MB Video DRAM Screaming 64 bit Graphics
- **AWARD WINNING "BYTE" BEST VALUE KFC 15"** Non-Interlaced Moniter. .28 (1280 x 1024) **LCD Digital Control & EPA "Energy Star"**
- 101 Enhanced Keyboard
- **Enhanced Medium Tower** w/230W (UL) Power Supply

Free Windows 95 (Limited Offer)

64 Bit Graphics Card

ACTION 5 MULTIMEDIA PACKAGE:

- ✱**Creative Labs Soundblaster 16 Sound Card**
- ✱Toshiba Quad Speed IDE CD-ROM Drive
- ✱*New* Lasonic **100W** Hi Fi Amplified **AM FM Radio Speakers**
- ✱**FREE 14 CD Titles** Including **Grolier Multimedia ....Encyclopedia**
- ✱Free Microsoft Mouse v2.0 Ergonomic
- ✱**Free Windows 95 w/Manuals & Disk** (Limited Offer)

PENTIUM 133	$2238
PENTUIM 120	$2068
PENTIUM 100	$1968
PENTIUM 90	$1948
PENTIUM 75	$1898

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PENMEDIA PRO '95

- **Intel New ZAPPA TRITON** Pentium Motherboard
- **EPA "Energy Star"** Power Management
- Intel Pentium Chip Processor
- **ZIF Socket** (Zero Insertion Force)
- **256KB Write Back Static Cache**
- **8MB EDO** (Extended Data Output) **RAM up to 128mb**
- NEC 1.44MB Drive
- **Western Digital 1.2GB Enhanced IDE** Hard Drive 10ms
- On Board PCI BUS Master IDE and Super Multi I/O(UARTs)
- **Diamond Stealth 64** PCI **w/2MB Video DRAM** Screaming 64 Bit Graphics Accelerator 16 Million Colors
- **MAG 17" MONITOR "Award Winning Performance!"** Computer Shopper Dec 1994 .26 Flat Screen Monitor Low Radiation Digital Control, Energy Star Monitor
- **Dell** 101 Enhanced Keyboard
- **Enhanced Full Tower w/265W** (UL) Power Supply

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PENMEDIA PRO MULTIMEDIA PACKAGE

- ✱**Creative Labs Soundblaster 16 Sound Card**
- ✱**Toshiba Quad Speed IDE CD-ROM Drive MPC Photo CD ...Multisession and XA Compliant**
- ✱*New* Lasonic 100W Hi Fi Amplified **AM FM Radio Speakers**
- ✱**14 CD Titles** Including **Grolier Multimedia Encyclopedia**
- ✱**Free Microsoft Mouse** v2.0 Ergonomic
- ✱**Free Windows 95 w/Manuals & Disk** (Limited Offer)

PENTIUM 133	$2768
PENTUIM 120	$2598
PENTIUM 100	$2498
PENTIUM 90	$2448
PENTIUM 75	$2398

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PENMEDIA ADVANCED '95

- **NEW Intel ENDEAVOR Triton 256K Pipeline Burst SRAM** Cache Motherboard
- **EPA "Energy Star"** Power Management
- Intel Pentium Chip
- **16MB EDO** (extended data output) up to 128 MB
- **NEC 1.44 MB 3.5" Drive**
- **Western Digital 1.2GB Enhanced IDE** Hard Drive 10ms
- On Board PCI Bus Master IDE & Super Multi-I/O (UARTs)
- **Diamond Stealth 64 PCI w/2mb VIDEO DRAM** Screaming 64 Bit graphics Accelerator, 16 million True Colors
- **MAG 17" Monitor "Award Winning Performance!"** Computer Shopper Dec 1994 .26 Flat Screen Monitor Low Radiation Digital Control, Energy Star Monitor
- **Dell** 101 Enhanced Keyboard
- Enhanced Full Tower Case w/**265W** (UL) Power Supply

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PENMEDIA ADVANCED MULTIMEDIA:

- ✱**Built in Soundblaster VIBRA 16 Sound Card**
- ✱**Toshiba Quad Speed CD-ROM Drive** MPC, Photo CD, Multisession & XA Compliant
- ✱*New* **Lasonic 100W Hi Fi Amplified AM FM RADIO Speakers**
- ✱*New* **Microsoft Home CD Package: Microsoft Encarta '95 - Microsoft Works - Microsoft Money & Entertainment Pak**

Free Windows 95 (Limited Offer)

PENTIUM 133	$3148
PENTUIM 120	$2978
PENTIUM 100	$2878
PENTIUM 90	$2828
PENTIUM 75	$2778

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PENMEDIA ADVENTURE '95

- **New Intel Zappa TRITON Pentium Motherboard**
- **Intel Pentium Chip**
- **ZIF Socket (Zero Insertion Force)**
- **256 KB Write Back Static Cache**
- **16MB RAM EDO (Extended Data Output) Ultra Speed 60ns**
- **NEC 1.44 MB 3.5" Drive**
- **2.1GB SCSI-II 8MS Fast Hard Drive**
- **Adaptec 2940 PCI Controller**
- **MATROX MGA Millenium 4MB Video w-RAM Technology**
- **Integrated MPEG, Video Accelerator & MGA Real Time 3D Graphics Video Card**
- **On Board PCI Bus Master IDE and Super Multi-I/O (UARTs)**
- **NEC XV17 17" Digital Control .28 Monitor**
- **New Microsoft Natural Keyboard**
- **Enhanced Full Tower Case w/265W (UL) Power Supply**

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PENMEDIA ADVENTURE MULTIMEDIA:

- ✱**CREATIVE LABS SOUNDBLASTER AWE 32 Sound Card**
- ✱*New* **NEC SIX (6) Speed SCSI-II CD ROM Drive**
- ✱*New* Lasonic 100W Hi Fi Amplified Surround Sound Speakers
- ✱*New* **Microsoft Home CD Package: Microsoft Encarta '95 -Microsoft Works - Microsoft Money & Entertainment Pak**
- ✱Free **Microsoft Mouse v2.0** Ergonomic
- ✱Free Mouse Pad
- ✱**Free Windows 95 w/Manuals & Disk**
- ✱**(Limited Offer)**

Free Windows 95 (Limited Offer)

PENTIUM 133	$4848
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PENTIUM 100	$4578
PENTIUM 90	$4528
PENTIUM 75	$4478

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NECXE15 / XE17 / XE21	$518 / 938 / 1870
NECXP15 / XP17 / XP21	$638 /1168 / 2308
Western Digital 650 MB IDE	$178
Western Digital 850 MB IDE 10ms	$188
Western Digital 1.25 GB IDE 10ms	$278
Conner 2.1 GB SCSI-II 8.5 ms	$648
Fujitsu 1.06 SCSI-III WIDE-SCSI 9ms 512K	$598
Sound Blaster 16 Stereo (OEM)	$68
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Infinity 2000 Triton Chipset w IDE I/O (UARTs) M/B 75/90/100	$178
Intel Zappa 75/90/100/120/133 w/o CPU 256 K Cache Triton PCI I/O B/I	$218
Asus 75/90/100/120/133 w/o CPU 256 K Cache Triton PCI I/O B/I	$228
Plextor PX63CD 145 ms 900KB	$528
Diamond Stealth 64 Video DRAM 2MB PCI	$148
Diamond Stealth 64 Video VRAM 2MB PCI	$248
Diamond Stealth 64 VRAM 4MB PCI	$399
#9 GXE 64 2MB PCI	$218
#9 GXE 64 Pro VRAM 2MB/4MB PCI	$318/478
Spider Lynx 64 1MB PCI	$75
NEC 1.2 MB /1.44 MB Floppy Drive	$39/28

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Intel 486DX2-66MHz/ 486DX4-100MHz	$108/188
Intel P5-75MHz / 90MHz / 100MHz / 120MHz / 133MHz	$199/298/3408/448/598
AMD 486DX2-66MHz 3V	$68
AMD 486DX2-80MHz 3V	$68
AMD 486DX4-100MHz 3V	$98
MEMORY: 72 PIN 4/8/16 MB	**$CALL**

MONTHLY SPECIALS

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14" Non-Interlaced .28 (EPA) DIGITAL CONTROL	$228
15" KFC Non Interlaced, ..28 (1280) Digital Control & Energy Star	$348
IIYAMAN (IDEX) MF-8617A 17" 1600X1280 .26	$748
17" KFC Flat Screen .26 Digital/Energy Star EPA/"Low Radiation"	$658
MAG 17" DX17F .26	$648
Shamrock 17" Flat .26 1600Resolution On Screen Digital	$678
Shamrock 17" Flat .28 On Screen Digital	$588
Nokia 447x 17" 1600x1280 .25	$998
20" SONY SE1 1280x1024 .30	$1818
Viewsonic 15G 15" 1280x1024 .28	$418
Viewsonic 15ES 15" 1280x1024 .28	$378
Viewsonic 17GA 17" 1280x1024 .28	$828
Viewsonic 17GX 17"	$748
PRINTERS	
HP Deskjet 540/660 (NEW)	$278/$468
CASES	
Deluxe Mini/Mid/Full Tower with 230W PS	$36/58/68
Enhanced Mid/Full Tower with 230W PS	$44/64
KEYBOARDS	
Fujitzu 101 Keyboard	$28
Microsoft Natural Keyboard	$78
Infinity 2000 101 Keyboard	$15
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Zoltrix 28.8 w/**VOICE FAX + MODEM INT.**	$148
Harmony 28.8 FAX + MODEM INT.	$108
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All Large SCSI Hard Drives	$CALL
MOUSE	
Infinity 2000 Serial Mouse 400 dpi **SALE**	$5.99
Microsoft Mouse v2.0 Ergonomic	$28
Logitech Mouseman (Serial)	$28

Prices above reflects cash discount. 1 per family. No Dealers Please.

Laptops *continued from page 48...*

Computer Of The Month

The AcerNote Light

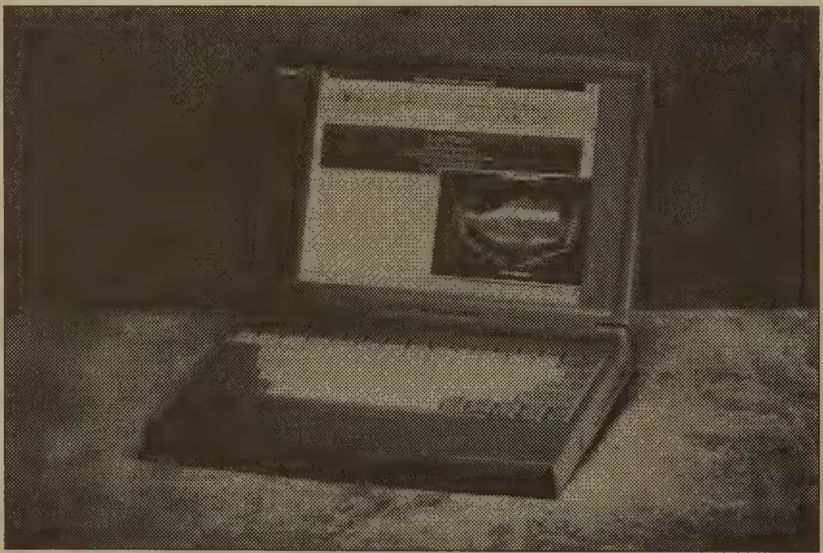
In recent years, Acer America has offered some excellent portable computers. This summer, they introduced the AcerNote Light for a user who needs a basic computer with lots of power, excellent design, and light weight. This is a no-frills computer that has everything except multimedia capabilities.

The AcerNote Light weighs an even 5lbs., including the battery, and measures a mere 11.7" x 8.2" x 1.7". Lots of features are packed into this portable. For instance, a 3.5" floppy drive comes standard. The interesting thing about this drive is that it can be removed, giving you room for an additional PCMCIA slot (Type III) or an extra battery. The floppy drive can still be used by connecting it through the parallel port.

The basic system comes with 8MB of memory, giving you enough RAM to run Windows 95. Additional memory modules are available to boost the memory all the way up to 32MB. Acer chose an Intel 486DX4/75 central processor to power the system. While there are faster machines on the market, this is perfectly adequate for applications that this computer is likely to handle. A 420MB removable hard drive comes standard with the system.

The display offers brilliant color on a comparatively large screen. Several different screens are available ranging in size from 9.4" to 10.4" (measured diagonally). Plus, both active and passive matrix displays are available. The video is a local bus system with 1MB of video memory. Like most portables, this one also supports an external monitor as well as the ability for both the external and built-in monitors to be in use at the same time.

The layout and feel of the keyboard are good. The PgUp and PgDn keys, however, are far away on the top row to the right of the function keys. I would prefer them to be closer to the cursor keys, which are at the bottom right where they should be. If you decide to attach a standard keyboard, it can easily be plugged into the PS/2 port on the back. You can plug in either a full-size keyboard, a numeric keypad ($69), or a mouse.



This system comes with a TrackPad pointing device. This small rectangular pad just below the keyboard is heat sensitive, responding to the touch of your finger. As you move your finger around, the pointer on the screen moves. There are two buttons in the front of the machine to take the place of right and left mouse buttons, but you can also tap the screen once or twice in place of using the left mouse button. This is a really convenient device and accommodates right- and left-handed people equally well. It gets my vote for best portable pointing device.

The battery system on this computer is a little different than I have seen anywhere else. The primary battery is nickel metal hydride by Duracell. (Extra battery packs are available for $179.) In addition to this battery pack, you can buy a rechargeable lithium ion battery pack ($249) that fits into the slot that holds the floppy drive. The combination of batteries allows you to work many hours before you need to recharge. And the recharge time on the Duracell battery can be as short as 1.5 hours if you are not using the computer.

In addition to the machine itself, the computer comes bundled with Windows 95 and Sidekick for Windows. Acer backs this product with a three-year warranty and 24-hours-a-day, seven-days-a-week technical support for the first year. Prices start around $2399. You get a lot for your money in a lightweight package. ■

RESOURCES:

AcerNote Light, $2399
Acer America Corp.
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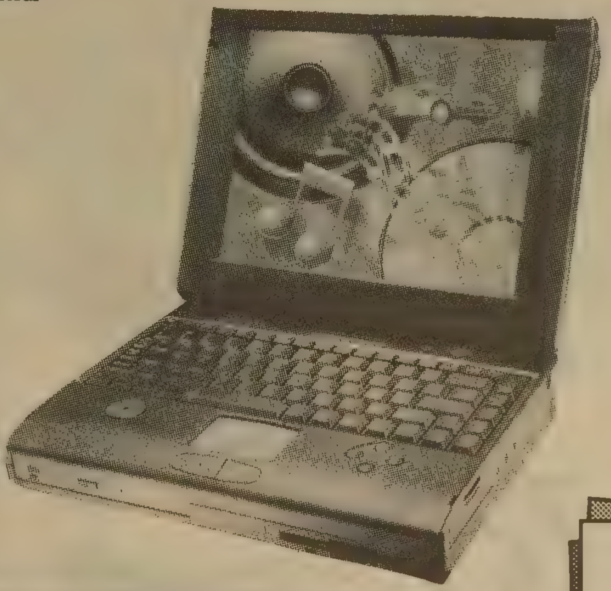
NP-5200	340MB HDD	P-75	P-90	P-100	P-120	P-133
	Dual Scan	2780	2880	2960	3140	3270
	Active TFT	3030	3130	3210	3390	3520



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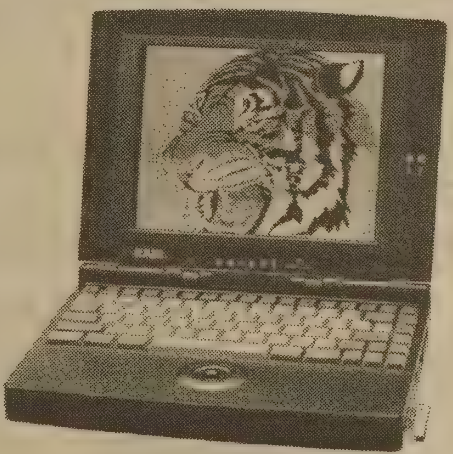

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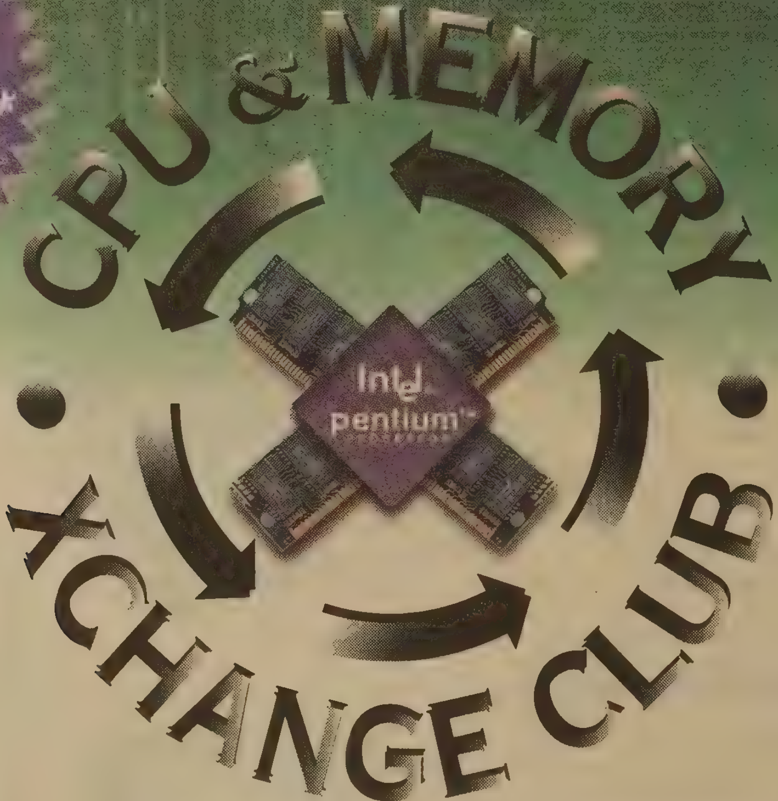

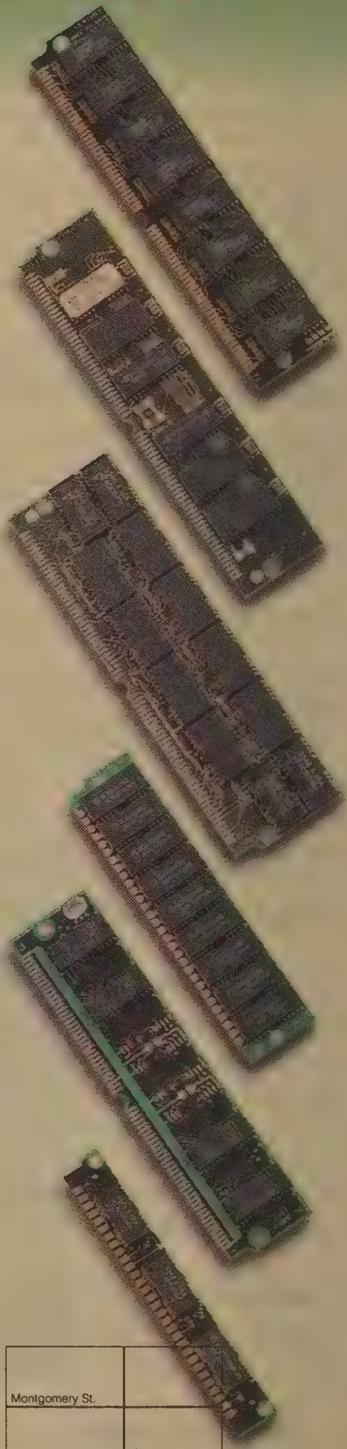

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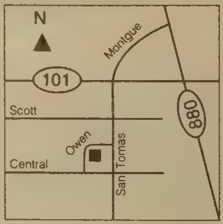

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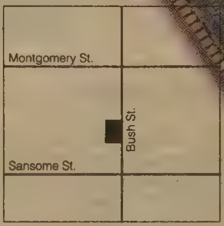

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UNIX • BY BENNETT FALK

The Meaning Of Owning UNIX

The Latest Change In Ownership

On September 20, 1995, Novell, The Santa Cruz Operation, and Hewlett-Packard announced an agreement that would transfer ownership of UNIX from Novell to SCO.

> **UNIX** is a big deal, **a $26 billion industry** in 1994, and that gives this **arrangement the aura** of meaningfulness.

The facts surrounding this agreement are roughly as follows. Novell will get up to $84 million in revenue over the next seven years and a 17% stake in SCO, amounting to roughly 6.1 million shares of SCO stock. SCO was traded at about $11.50 per share and promptly fell to $9.75 when the arrangement was announced.

SCO will own Novell's UnixWare product, a UNIX implementation for Intel-based hardware that competes with SCO's OpenServer. SCO has published a product roadmap that describes how these products will be merged into one by 1998.

SCO will also take over Novell's UNIX intellectual property and responsibility for further UNIX development.

Hewlett-Packard's role in the new arrangement is to manage the effort to develop a standard 64-bit implementation of UNIX.

Novell will license its network services for future UNIX development.

UNIX is a big deal, a $26 billion industry in 1994, and that gives this arrangement the aura of meaningfulness. The problem is how to resolve this hazy aura into something we can actually think about. There are, of course, several candidates competing to be the meaning of this sale. Feel free to chose your favorite.

Meaning #1: The Official Interpretation

Naturally the presentation of this new arrangement included a summary of its significance. The three companies involved intend to deliver a "high-volume UNIX operating system with Network and Enterprise services." UNIX customers will be offered "a single UNIX with a reliable and easy migration path to 64-bit network computing." The new alliance is a "significant step forward for UNIX competitiveness" and will set a standard for a new generation of network services.

Meaning #2: UNIX Is Dead

No one really knows what this means, but it's a fashionable thing to say. See Meanings 5 through 7 below.

Meaning #3: Time (or Something) Heals All Wounds

In the '80s when Sun and AT&T agreed to collaborate on the further development of UNIX, there was a massive hue and cry from other UNIX vendors that the two companies would produce a version of UNIX that favored Sun hardware.

Now HP seems to be taking a similar role in UNIX development, but there will be no outcry over HP's role in developing the standard 64-bit UNIX implementation.

In late 1992 and 1993, when AT&T negotiated the sale of UNIX to Novell, it also undertook a transfer of the UNIX trademark and interface definition to X/Open, a "vendor neutral" consortium. This transfer was finally completed by Novell in 1994.

X/Open now administers a UNIX interface definition known as the Single UNIX Specification and the UNIX trademark. In order to use the UNIX trademark, a vendor's product must be verified to comply with the specification. This "branding" process is handled by X/Open, not Novell.

These days the right to call something UNIX is won by demonstrating compliance with the specification, not by building a system on the source code owned by AT&T, Novell, and now SCO. (Building on that source code may be the easiest way to comply with the specification, but it's certainly not the only way.)

Meaning #4: Diminishing Returns

AT&T invented UNIX and owned it for roughly twenty-three years before selling it to Novell in 1993. Novell bought AT&T's UNIX technology and source code for $350 million. As noted above, Novell did not buy all the UNIX rights AT&T had. Novell purchased UNIX technology and the source code while the UNIX trademark and interface definition went to X/Open.

Less than three years later, it is selling UNIX for a lot less than $350 million: $84 million revenues and roughly $60 million in stock. Apparently, without the trademark and interface definition, owning UNIX is just not as much fun as it used to be.

The price has fallen, but in some respects, Novell is selling SCO less than it purchased from AT&T. In 1994, Novell collected a "lifetime license" fee of roughly $80 million from Sun. What's not clear in the new arrangement is who, among the companies licensing UNIX, will be obligated to pay license fees to SCO. SunSoft, which distributes more run-time UNIX licenses than any other vendor, seems to be off the hook.

Meaning #5: The UNIX Chain Letter

Sometime in 1998 I expect to receive a letter with instructions to send a check to the address at the top of the list. I will add my address at the bottom of the list, mail the check, and send the letter to three of my closest friends.

Sixty days later the UNIX source code, a flock of engineers, and possibly several checks from future owners of UNIX will show up on my doorstep. I am, of course, counting on the principle of diminishing returns (see #4 above). UNIX will be out of reach if it costs more than a few thousand dollars when my name gets to the top of the list.

Meaning #6: UNIX Is Not Linux (Yet)

The continued technical evolution of UNIX has basically become a matter of porting the operating system to CPU architectures with ever larger addresses. The current standard is a 32-bit system. The deal between Novell, SCO, and HP looks forward to a 64-bit version, and sooner or later there will be a 128-bit UNIX implementation. (Indeed, the major challenge of the 64-bit implementation is not to do anything that would interfere with porting the system to some hypothetical 128-bit architecture.)

Since the UNIX Wars of the '80s, the official UNIX development effort has gotten terribly conservative, more or less at the insistence of the licensees. Too much money ($21 billion in 1993, $26 billion in 1994) has been spent on UNIX to allow it to change radically.

So much depends on maintaining continuity between one version of UNIX and the next that whoever happens to "own UNIX development" will not be particularly free to innovate (whatever their natural inclinations might be).

The creative soul of the UNIX community isn't dead, it just comes to expression well outside the mainstream in, for example, the evolution of Linux, a UNIX clone that has no dependencies on the intellectual property SCO now owns.

Ultimately, however, this creativity will not be denied. Sooner or later Linus Torvalds' name will get to the top of the list in the UNIX chain letter.

continued on page 274

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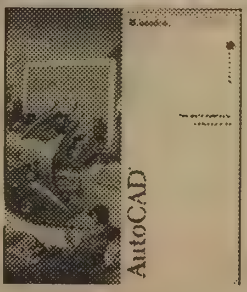

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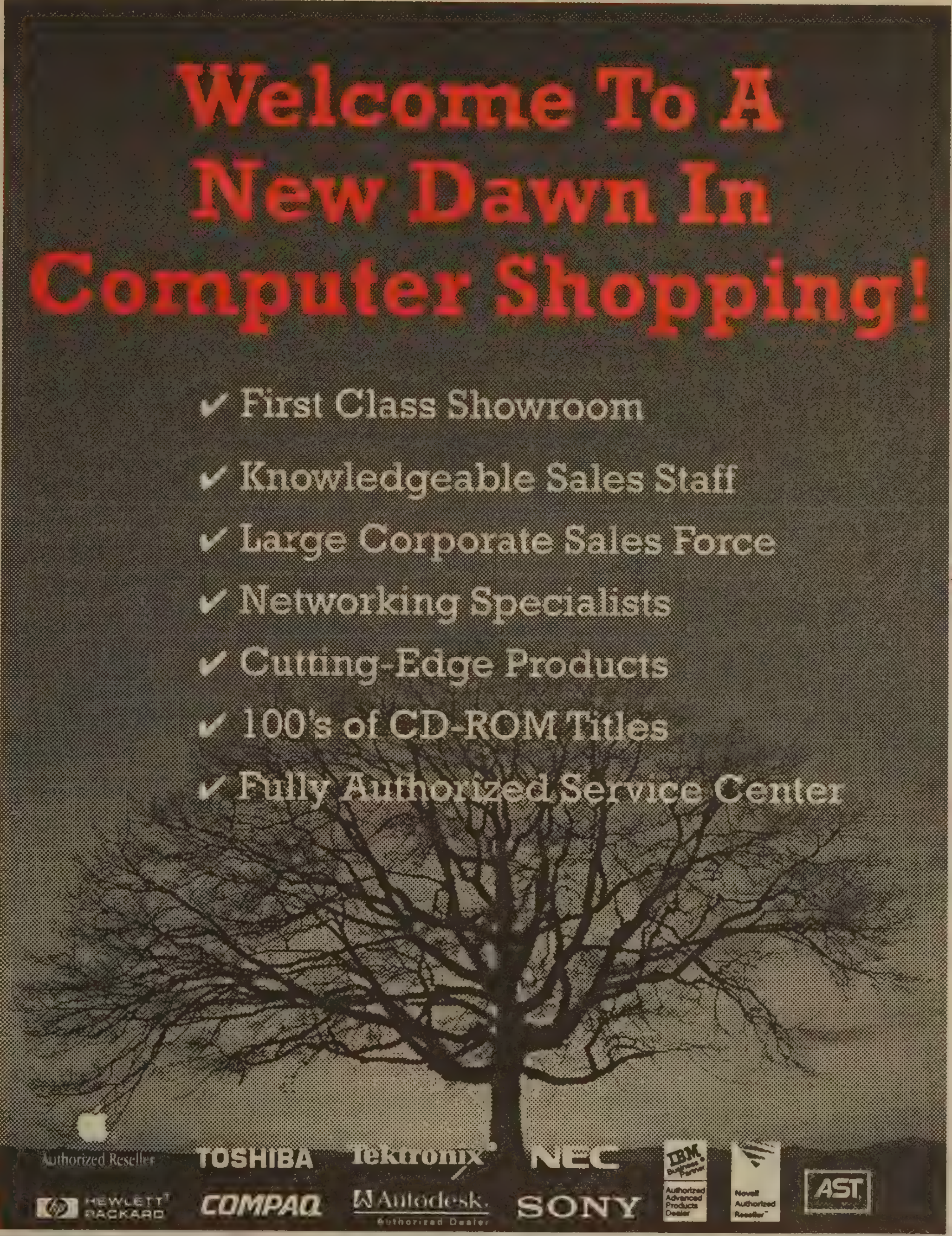

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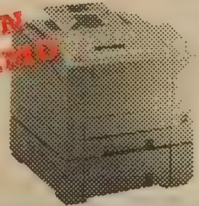

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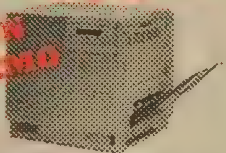

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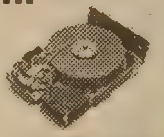

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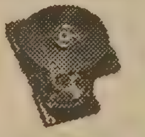

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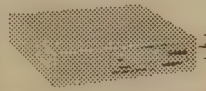

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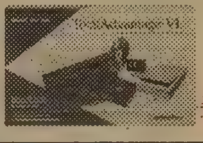

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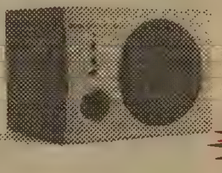

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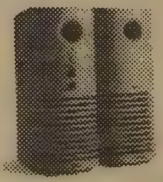

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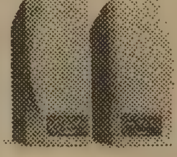

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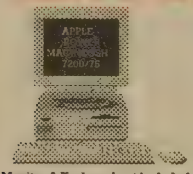

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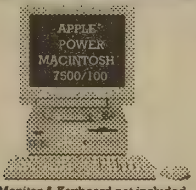

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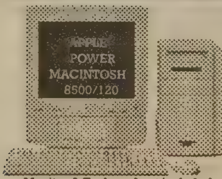

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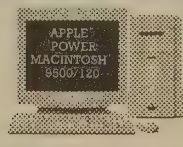

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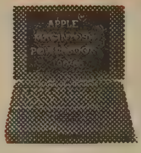

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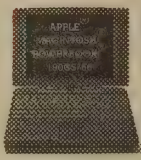

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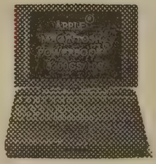

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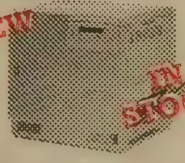

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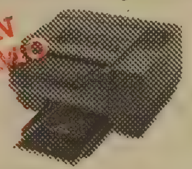

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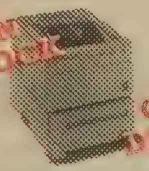

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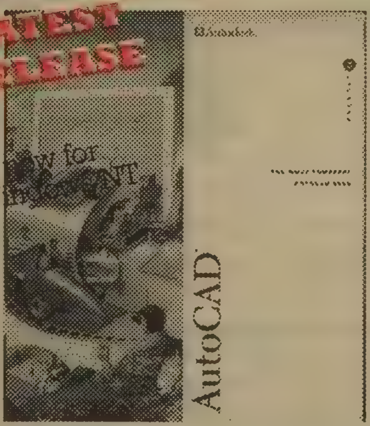

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OS/2 • BY FABIAN PASCAL

Notebook Warp Installation From CD-ROM

Testing A User-Suggested Workaround

In the October column I raised the issue of installing the CD-ROM version of OS/2 on notebooks. I deplored the lack of built-in OS/2 support for such installations, and questioned the need, ability, or inclination of the average user or small business to involve themselves in the workaround proposed by an OS/2 developer.

Be that as it may, if a user is willing to attempt to extend the workaround to a different configuration than that for which it was certified, will it work? Its author was hopeful that it would, but users' feedback was mixed.

I promised I was going to follow up on this, and I am reporting the results in this column.

Workarounds: The Adventure Continues

To recall, the IBM official position, as well as that of PC Card (formerly PCMCIA) vendors, has been that *installing* OS/2 from a CD-ROM drive is not supported. At best, it may be possible to access a CD-ROM drive from a notebook using a PC Card-to-SCSI card when OS/2 is already running on the machine. But on July 31, three months after I wrote the initial column stating this position, a procedure on how to perform such an installation was uploaded to the THINKPAD forum's library on CompServe by an OS/2 developer. It was certified for:

(a) Warp FullPack
(b) ThinkPad 755CE
(c) NEC Intersect 84 2x CD-ROM drive
(d) Adaptec SlimSCSI 1460 card
(e) Warp's built-in PC Card support for the TP755CE

The procedure is sufficiently detailed to enable a moderately knowledgeable user to extend it to different configurations such as, for example, mine:

(a) Warp FullPack
(b) ThinkPad 500 (models in ThinkPad line are significantly different)
(c) Chinon CDX-535 2x CD-ROM drive
(d) QLogic Fast!SCSI PCMCIA-10 card
(e) Warp's built-in PC Card support for the TP500

Note, first, that the TP500 subnotebook is hardly a machine for OS/2, primarily because it has a very small screen and a slow 486SLC2/50 processor. Moreover, my unit has 4MB of RAM and a 170MB hard disk—my intention is to use it only for DOS word processing and email. Nevertheless, with the maximum 12MB of RAM and larger hard drives, users have reported success with OS/2. Since it also has PC Card drivers built into OS/2—which, supposedly, "runs" in 4MB of RAM—it'll do for the purpose at hand.

Since the Chinon is an external SCSI drive, also supported with drivers built into Warp, the only question was the QLogic card: the procedure worked with the SlimSCSI only because an OS/2 driver was available on the Adaptec BBS. I had already picked up the one from the QLogic BBS and tried it, unsuccessfully, for the June column. Indeed, the README file states as follows:

> "OS/2 currently does not have support for PCMCIA devices as part of the install script. OS/2 V3.0 cannot be installed to or from a PCMCIA device during the initial installation of the operating system."

But since the procedure is newer and more involved than what I tried and IBM may have been unaware of the possibilities, I ignored the message.

Step 1: Creating Diskettes For CD-ROM Installation

CD-ROM Warp comes with two diskettes from which you boot base OS/2 to run the install program that accesses the CD-ROM drive. The content of the first (Installation) diskette must be changed for the procedure, so you need to make working copies of the two distribution diskettes.

If you have an OS/2 system running, you can use DISKCOPY to duplicate the diskettes. Or, if the system is attached to a CD-ROM drive, you can run the CDINST program on the drive. I chose the latter way to test it.

Step 2: Deleting Unnecessary Drivers From Diskette 1

The OS/2 installation program needs to have access to all available drivers to find the ones pertinent to any hardware it may encounter. Since most of these drivers are irrelevant for your specific notebook—here, TP500—they must be deleted to make space for those drivers and files that are needed for the procedure.

To that end, delete the following files from Diskette 1 (leaving only the necessary IBM*.ADD drivers):

A*.ADD
B*.ADD
D*.ADD
F*.ADD
L*.ADD
M*.ADD
S*.ADD
T*.ADD

At this point, you can also delete the .FLT drivers for the several supported CD-ROM drives, except for the one for your drive, in my case CHINCDS1.FLT. OS/2's Selective Install facility will later report it can't find them, but they are not needed anyway.

Step 3: Adding Necessary Drivers To Diskette 1

The drivers required are:

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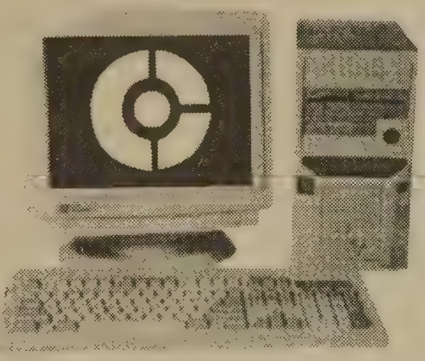

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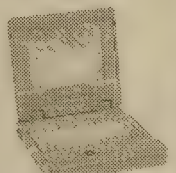

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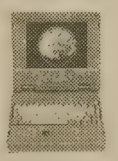

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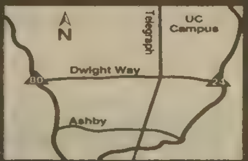

OS/2 *continued...*

- the PC Card OS/2 drivers for your specific notebook (or equivalent)
- the OS2SCSI.DMD base device
- the .ADD driver for your specific PC Card/SCSI card

With regard to PC Card drivers: if they are available for your specific notebook, there may be several options. With the ThinkPads, for example, there's a version that is built into Warp, one that comes with the machine, and IBM's latest upgrade, available on its BBS or CompuServe. While he expresses hope that the procedure can be made to work with any of them, the procedure's author explicitly warns that it did not work with the version that came with the TP755CE. So it may be necessary to try more than one version (when specific drivers are unavailable, it's even trickier, for any of the drivers for "equivalent" notebooks—let alone different versions—may or may not work).

The procedure lists the following driver files for the TP755CE:

IBM2SS01.SYS
PCMCIA.SYS

As far as I can tell, the TP500 uses similarly named files. I heeded the warning and stuck to the TP500 drivers built into Warp.

If your notebook-specific drivers are built into Warp, you can copy them from a notebook where they are already installed; otherwise, you can UNPACK them from the CD-ROM (again, on a running system, and you must find how, exactly, they are packed).

I ran Selective Install from my desktop IDE CD-ROM drive and installed the PC Card drivers for the TP500. Several files were copied to my hard drive and the following statements were inserted into my CONFIG.SYS:

```
BASEDEV=PCMCIA.SYS /P
DEVICE=D:\OS2\MDOS\VPCMCIA.SYS
DEVICE=D:\OS2\BOOT\AUTODRV2.SYS
         D:\OS2\AUTODRV2.INI
BASEDEV=IBM2SS01.SYS /S0=1
```

Note that the procedure requires only the two BASEDEVices, which were copied by Selective Install into the \OS2 directory, not the \OS2\BOOT directory, where all bootable devices are located. This would indicate that PC Card drivers are not part of the installation script. I copied them to Diskette 1.

The SCSI base device—OS2SCSI.DMD—can be copied from the \OS2\BOOT directory of any OS/2 system.

For the Adaptec AHA152X.ADD for the SlimSCSI card I substituted the Qlogic QL40OS2.ADD driver for the Fast!SCSI PCMCIA-10 card.

Step 4: Revising The CONFIG.SYS File On Diskette 1

The CONFIG.SYS file created by the CDINST program must be modified to reflect the eliminated and added drivers. Listing 1 shows the revised content with the deleted drivers REMmed out and the added drivers capitalized (note the .FLT drivers also REMmed out).

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2x36/60-70ns	8MB, 72 Pin, 60 or 70ns w/parity	$**Call**
4x32/60-70ns	16MB, 72 Pin, 60 or 70ns no parity	$**Call**
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OS/2 *continued...*

You may also have to supply parameters to different CD-ROM and PC Card drivers, to make the procedure work (see below). Acquaint yourself with them from the hardware and OS/2 documentation. For example, /P for the QLogic driver and deleting the /S0=1 for the IBM2SS01.SYS driver were recommended by QLogic (see below).

Step 5: Preparing The Notebook For OS/2 Installation

The notebook must be prepared before you install OS/2; the exact procedure depends on what you already have installed and want to preserve, your partitioning and file system choices, whether you opt for Boot Manager, etc.

I already had DOS installed and wanted to preserve it. To be able to install Boot Manager, which is more convenient than dual boot, I had to:

- shrink the DOS partition to 50MB to free the rest for OS/2
- move the shrunk partition 1MB forward on the disk (for Boot Manager)
- create and FORMAT a FAT (due to limited memory) OS/2 partition

The first two steps can be achieved nondestructively (that is, with the DOS contents preserved) by using the DOS facility of PartitionMagic, a utility I reviewed in a previous column. The third step is performed by the OS/2 installation program.

Note: The procedure's author warns that the format applied by the installation program is a "quick" one which, if performed after a repartitioning or switching file systems, may cause subsequent problems. He recommends interrupting the installation and, at the command line, apply a "long" format by executing a FORMAT /L command (see below).

Step 6: CD-ROM Installation

At this point, to install OS/2, I:

A. Inserted the QLogic Fast!SCSI PCMCIA-10 card into the TP500 and connected its cable to the (properly terminated) Chinon CD-ROM drive.

B. Turned on the CD-ROM drive and inserted the Warp Fullpack CD-ROM disk into it.

C. Inserted the "Installation Diskette" into the TP500's external floppy drive.

D. Turned on the TP500 (using the AC adapter, to avoid battery problems).

According to the procedure, OS/2 should boot from the diskette and prompt for Diskette 1, at which point the CD-ROM drive will be accessed.

The prompt came and, after the Warp logo and the "Loading..." message, I got a screen informing that "Cannot locate or operate any CD-ROM drive" and that "There is no OS/2 device support that can currently operate any CD-ROM drive."

Neither of the recovery suggestions—making sure that the proper statements were in CONFIG.SYS or contacting the maker of the CD-ROM drive—was relevant because the Chinon drive worked on my desktop with exactly the same drivers and statements and they were in CONFIG.SYS as you can verify for yourself in Listing 1.

I contacted QLogic and they recommended adding the /P parameter to their driver. That did it—OS/2 installed without a hitch (even if very slowly) I even made it recognize the Western Digital video adapter of the TP500 and install the

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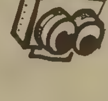

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640 x 480 x 256 video driver, instead of the default VGA.

Step 7: Post-Installation Cleanup

The procedure details some cleanups to be done after the installation, but I was pleasantly surprised to find that my installation was somewhat smarter and made most of that unnecessary (your mileage may vary).

Listing 2 shows the CONFIG.SYS file created by the installation program on the TP500. Note, first, that it was smart enough to include the BASEDEV statement for the QLogic driver! It also copied the driver to the root directory, so all I had to do was move it to the \OS2\BOOT directory, with all the base device drivers. It also recognized the Chinon drive and installed all its pertinent drivers.

Second, two other drivers that were specified in the CONFIG.SYS on Diskette 1 were also copied to the root: CDFS.IFS and OS2SCSI.DMD. Both are redundant because copies already exist in \OS2\BOOT, so they can be deleted. But while the former is referenced in CONFIG.SYS, the latter is not. To be able to access the CD-ROM drive via the QLogic card again—as it will be necessary for upgrades, feature additions, and software installations—I added the proper BASEDEV statement.

Conclusion

It is sometimes possible to use user-developed procedures effectively; and those with the ability and desire to experiment with and document solutions, or try them, certainly ought to do so. But there will be high sensitivity to the slightest variation in configurations and, without official support, they may not have anything to show for their time and effort.

I maintain my previously stated position that this is not the type of solution for the average PC or small-business user. Indeed, the sheer fact that CD-ROM installation is possible should have been known to IBM, which could have incorporated it directly into OS/2 and supported it officially. ■

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The Shining Disc

All Roads Lead To CD-ROM

If you have been using a computer for a while, you've accumulated parts and extensions for it along the way. If it is a business computer, you may not yet have bought a CD-ROM. You may be asking yourself, is it worth the money to buy one?

If you had a computer for amusement, the answer would be a quick "yes." More and more games are multimedia extravaganzas that require a CD-ROM because they are so huge. But it is not so obvious that a business computer needs a CD-ROM drive. What are the cost-benefit breakdowns?

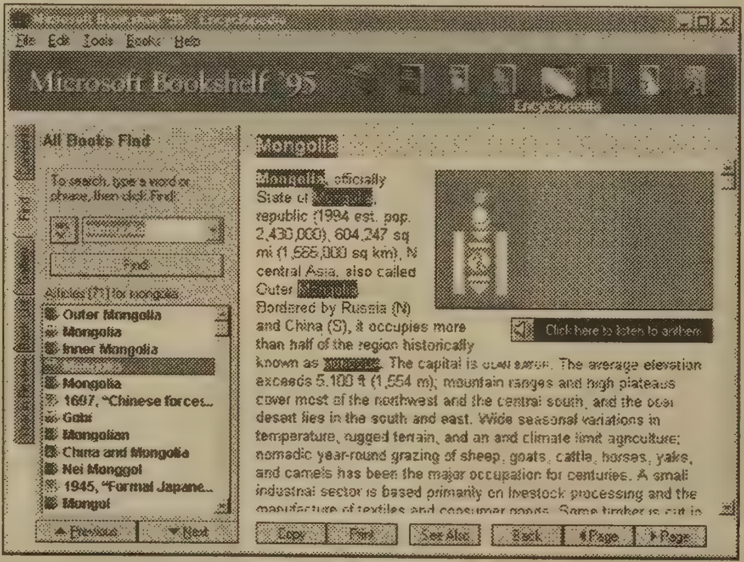
A CD-ROM costs from $200 to $600. Is it worth it? This month we look at one fine CD-ROM drive, and examine a few of the products that are available only on CD.

NEC MultiSpin 6X

Since NEC CD-ROMs have had a consistent reputation for excellence, I contacted them to see what they are up to right now. Their current top-of-the-line drive is the MultiSpin 6X, available in internal and external versions.

It is half again as fast as the quad speed drives now dominating the market. The average access time is 145 milliseconds, and data transfers out at 900KB/sec. It has a 256KB continuous flow cache. It is Plug 'n' Play compatible, and also compatible (it says here) with MPC Level 2 specs, CD-I, CD+G, Video CD playback, Kodak Single/Multisession PhotoCD, QuickTime, and (audio) CD-Plus.

I found the external version attractive. Anything that will sit on your desk for years should be easy to look at. It has audio controls on the front, convenient when you are using the device to play back Bernice Lewis rather than census data. It also has a backlit LCD status control on which track codes and diagnostics are displayed, so you know when it is working and when it is not.



Mongolia, officially State of [illegible], republic (1994 est. pop. 2,430,000), 604,247 sq mi (1,565,000 sq km), N central Asia, also called Outer [illegible]. Bordered by Russia (N) and China (S), it occupies more than half of the region historically known as [illegible]. The capital is [illegible]. The average elevation exceeds 5,100 ft (1,554 m); mountain ranges and high plateaus cover most of the northwest and the central south, and the [illegible] desert lies in the south and east. Wide seasonal variations in temperature, rugged terrain, and an arid climate limit agriculture; nomadic year-round grazing of sheep, goats, cattle, horses, yaks, and camels has been the major occupation for centuries. A small industrial sector is based primarily on livestock processing and the manufacture of textiles and consumer goods. Some timber is cut in

Macintosh users have SCSI, the Small Computer System Interface, built into their machines. SCSI allows a variety of devices to be connected to each other in a daisy-chain, using only a single port. As a DOS/Windows type, I discovered that I needed to install a SCSI controller board to use the NEC 6X. NEC provided the board, and a fat little manual to go with it.

NEC is proud that the manual for their SCSI system is only eighty-two pages long. I was a bit taken aback—this was the manual for the board, not for the drive itself. But it turned out that the board and the accompanying software were largely self-installing. The board and the drive itself were up and running a very few minutes after I opened the box.

It is a credit to NEC that once you get it installed, the drive is simple and transparent. I dropped in the first CD, and I was in business.

So what can you do with a CD-ROM, once you have it installed? I decided to look at it in four different situations.

One was the simple, quick lookup—that called for a general reference tool, and I chose Microsoft Bookshelf. The second was a database. For that I chose ABI's American White Pages. The third was a graphic tool. For that I chose DeLorme's mapping software. And finally, as a depth textual tool, I chose Bible Windows.

These are four tools that are of use in my writing business. But there are thousands of business applications available on CD at this time. If these are not your tools of choice, at the end of the article I will tell you some places on the Web where you can browse among available CDs.

Casual Research: Microsoft Bookshelf

The Microsoft Bookshelf is a single-CD reference product. I find I use it every day. It includes seven reference books: the *American Heritage Dictionary*, *Roget's Thesaurus*, the *Columbia Book of Quotations*, the *Concise Columbia Encyclopedia*, the *Hammond Atlas of the World*, *The People's Chronology*, and the *1995 World Almanac*.

These are in themselves very fine reference works. The *American Heritage Dictionary* is

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216 ( ) Entertainment
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218 ( ) Forestry, Mining, Metals and Glass
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220 ( ) Government, Federal
221 ( ) Government, State
222 ( ) Healthcare
223 ( ) Hobby/Personal Use
224 ( ) Insurance
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3. Current Operating Systems: (circle all that apply)

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305 ( ) Windows NT
306 ( ) Windows 95
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famous for its listing of Indo-European roots, an etymologist's delight. But all the books are extended to be multimedia works. While in the atlas you can see the map of the Mongolian Republic, in the encyclopedia (if you have a sound board) you can hear a bit of Mongolia's national anthem. The article on arteriosclerosis has an animation that shows just how arteries harden—in motion.

The bookshelf is not just a stack of reference books. It is very thoroughly indexed, and you can have any topic sought in all of the reference works, in one of them, or in any combination. You can cut and paste what you find—copyright material is mysteriously added to your selection—and use it for an authoritative answer to questions.

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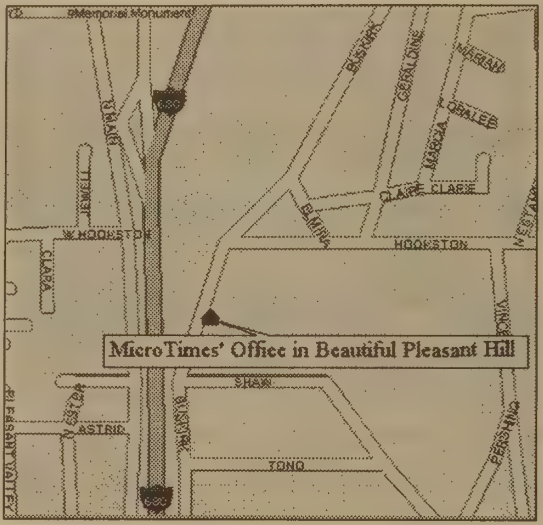
My favorite of the books is the quotation collection. You can ask for a quotation-a-day upon opening the bookshelf, or you can just browse. It is addictive. But it is also concretely useful—hearing what others have said helps you to think things out. Under "investment," for instance, I found: "The social object of skilled investment should be to defeat the dark forces of time and ignorance which envelope our future" (John Maynard Keynes). Churchill said, "There is no finer investment for any community than putting milk into babies." Hmm, I know who should read that. Oliver Stone had a character say, "Money itself isn't lost or made, it's simply transferred from one perception to another. This painting here. I bought it ten years ago for sixty thousand dollars. I could sell it today for six hundred. The illusion has become real and the more real it becomes, the more desperately they want it."

If you need a reason to buy a CD-ROM drive, the Microsoft Bookshelf suffices.



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Wide Search: ABI Phone Books

ABI Phone Books are one of a number of competing products—national telephone books on CD. American Business Information has a series of products—American White Pages (four thousand phone books), American Yellow Pages (ten million businesses), American 800 Numbers, Seventy Million Households, and Eleven Million Businesses.

In the White Pages you can look up telephone numbers by first or last name, by address, by city, or by zip code. You can also choose by median home value in the census area as of 1990, and by length of residence. The records that are found can be examined in detail, tagged, and downloaded with any or all of the records in each listing.

It is fast. I sought a name in Connecticut, Delaware, Massachusetts, Maine, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont in forty-two seconds, finding seven hits. That is a lot of looking for that amount of time.

It is an extremely dense body of information. There are six CDs, for the various regions of the United States. This is obviously a superb tool for finding that person you have been looking for all these years. Though it is an excellent way to contact individuals, there will be unlisted numbers. I looked up Steven Spielberg—not there. There are also numbers with no addresses, and names where you have only an initial.

And there are listings simply missed: Eleven Million Businesses found only the San Jose office for *MicroTimes* in California. There should also have been listings for the offices in Pleasant Hill, Los Angeles (Burbank), and Anaheim.

American White Pages installed flawlessly under Windows 95. Eleven Million Businesses got the error message that it was not a 32-bit program. ABI technical support was having a bad day when I called. The telephone number given for support got me to sales. About the time I got annoyed, a helpful employee said she would walk my request over to tech support, and I got a call back five minutes later.

One of the oddest things about these products, though, is that you can only examine in detail or download five thousand names and addresses from each disc before you must contact American Business Information and "renew" your disc. Searches are free, but downloads or looking-at-the-details (including the street address) are limited to 5000.

At $59.00 (street price) for the American White Pages, we are talking a bit over a penny per name-and-address. Used cannily, it could be a cheap way to build a middle-sized mailing list.

Wide Research, With Pictures: DeLorme Mapping

Imagine, if you will, software that begins with an overview of a third of the United States. With a few clicks you can zoom in on any tiny area in the country. You can search graphically with the mouse; or you can search textually by place name, by telephone area code and prefix, by street address and zip code, or by zip code alone.

DeLorme's mapping is stupendous. This product is able to give sixteen degrees of magnification on maps of any region in the United States, from satellite-like overviews of multi-state areas to small neighborhoods of a few

continued on page 276

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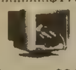

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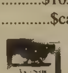

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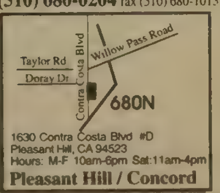

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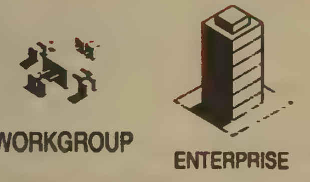

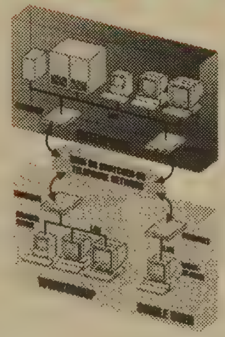

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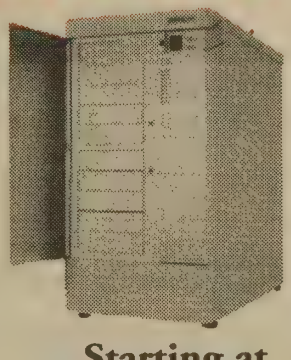

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Time And Billing Software

Service Billing Software For Small Consultants

Consultants and small professional firms often find the entire billing process burdensome and frustrating when it should in fact be an exercise with its own delights and rewards. However, while it is important to choose your accounting software carefully, there are some worthwhile yet inexpensive packages availabe.

A class of accounts receivable software called time and billing (T&B) is designed specifically for service providers. T&B options run the gamut from some real cheapies to those costing thousands of dollars; the latter enabling large professional firms to not only bill their clients, but also organize and manage their practice. This article considers the inexpensive packages.

If you use a generic, small-business accounting package with accounts receivable already built in, you probably won't find it ideally useful for consulting services. Invoicing for professional services involves a different presentation and layout than would be suitable for, say, a reseller delivering inventory off the shelf.

> ***Accounts receivable software that is incompatible with the rest of the world should be avoided, even if it seems cheaper at first, because the need to integrate is central to its value.***

Take the example of a programmer working on a four-month project. The programmer wants to bill her client at frequent intervals. On each invoice, she wants to describe exactly what she has been doing, even if it's just to note what was discussed during a billable phone call. This programmer uses Quicken to manage her checkbook, but Quicken doesn't generate invoices. The programmer therefore needs to either buy software that will, or manually word-process her bills and keep track of the payments.

Managing Your Money (MYM) is another widely used checkbookkeeping package which, like Quicken, lacks the capability to generate invoices, as do all the low-end, personal accounting packages we've examined.

One option to handle invoicing is to upgrade from Quicken to QuickBooks. QuickBooks has accounts receivable built right in, so that it would generate invoices and keep track of every payment received. Moreover, the program is touted as supporting both product and service invoices. Product invoices let you enter a product code which automatically brings up a predefined description, then asks for a quantity, and provides an extended total plus tax.

Examination of QuickBooks' service invoice layout finds it inadequate even for the billing needs of our fictitious programmer. QuickBooks doesn't allow the user to easily input unique line-by-line descriptions required in consulting operations. So the programmer will need to investigate the array of time and billing software available.

Selecting Time And Billing Software

In its simplest formulation, T&B software tracks time and expenses by client or project. It generates invoices, records payments, and reports balances due. More sophisticated packages provide greater detail, are more customizable, and produce a greater variety of reports.

A time and billing system is only a portion of your overall accounting system; specifically, the accounts receivable component. That means you still need the main part of your accounting system—the general ledger, balance sheet, and income statement. Getting the entries in both systems to agree can be a challenge.

Let's say the programmer in our example purchases Timeslips ($179.95), a T&B package popular among small service providers. When she receives payment on an invoice, she'll now need to enter the transaction twice: first in Timeslips, so that the client account will show that payment has been made, then in Quicken.

If she forgets to record the transaction in Quicken, the mistake will become apparent when she reconciles her bank account at the end of the month and the books disagree with the bank statement balance. The oversight can be easily corrected, assuming the programmer keeps records of her bank deposits.

If she forgets to record a payment in Timeslips, on the other hand, she will eventually get a phone call from an upset client who has already paid a purportedly delinquent bill. To control against this embarrassing situation, the programmer would need to prepare a set of reconciliation workpapers that tie receipts shown in the T&B package with deposits in her bank account, ensuring that all payments deposited are reflected in the corresponding client accounts. All this takes time away from her primary income-generating activity—writing code.

One way to avoid these hassles is to buy one integrated accounting package. In an integrated package, once a payment is made to a customer's receivable account, it is automatically posted to the bank balance and an offsetting revenue account. One payment, one physical entry. Boom. Done.

The problem is finding an integrated pack-

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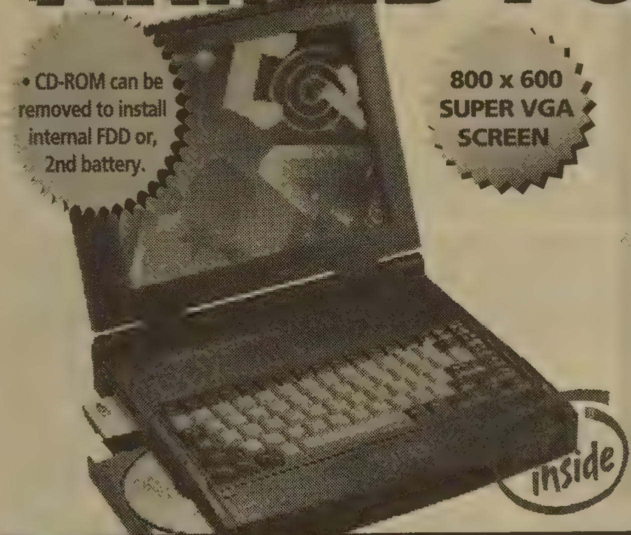
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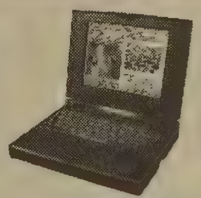
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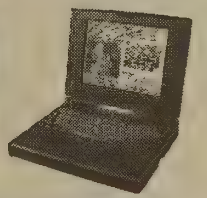
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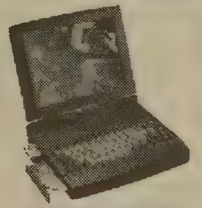
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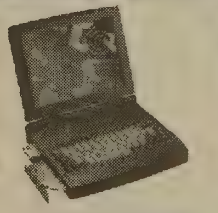
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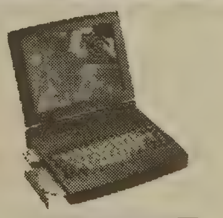
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If you don't use an integrated package, and your accounts receivable software is made by a different vendor than your general accounting program, there's a good chance that one vendor or the other offers a link between the two programs. The link, which may be sold as a separate add-on, imports transactions from the time and billing program into your general accounting program.

You would naturally expect to find a link between two of the most popular programs used by consultants, Timeslips and Quicken, but there is currently no software solution for this. Timeslips sells Timeslips Accounting Link (TAL), containing links to a large number of programs, but Quicken is not included. According to a spokesperson from Timeslips Corporation, Intuit refuses to make available the source code necessary to develop the link to Quicken.

Intuit answers that market realities and security concerns keep them from releasing Quicken's source code. Moreover, Intuit prefers that customers seeking additional capabilities follow their "migration path" to QuickBooks. Intuit understandably wants the whole sweet potato pie of market share, but QuickBooks doesn't offer the type of invoicing that many service providers need.

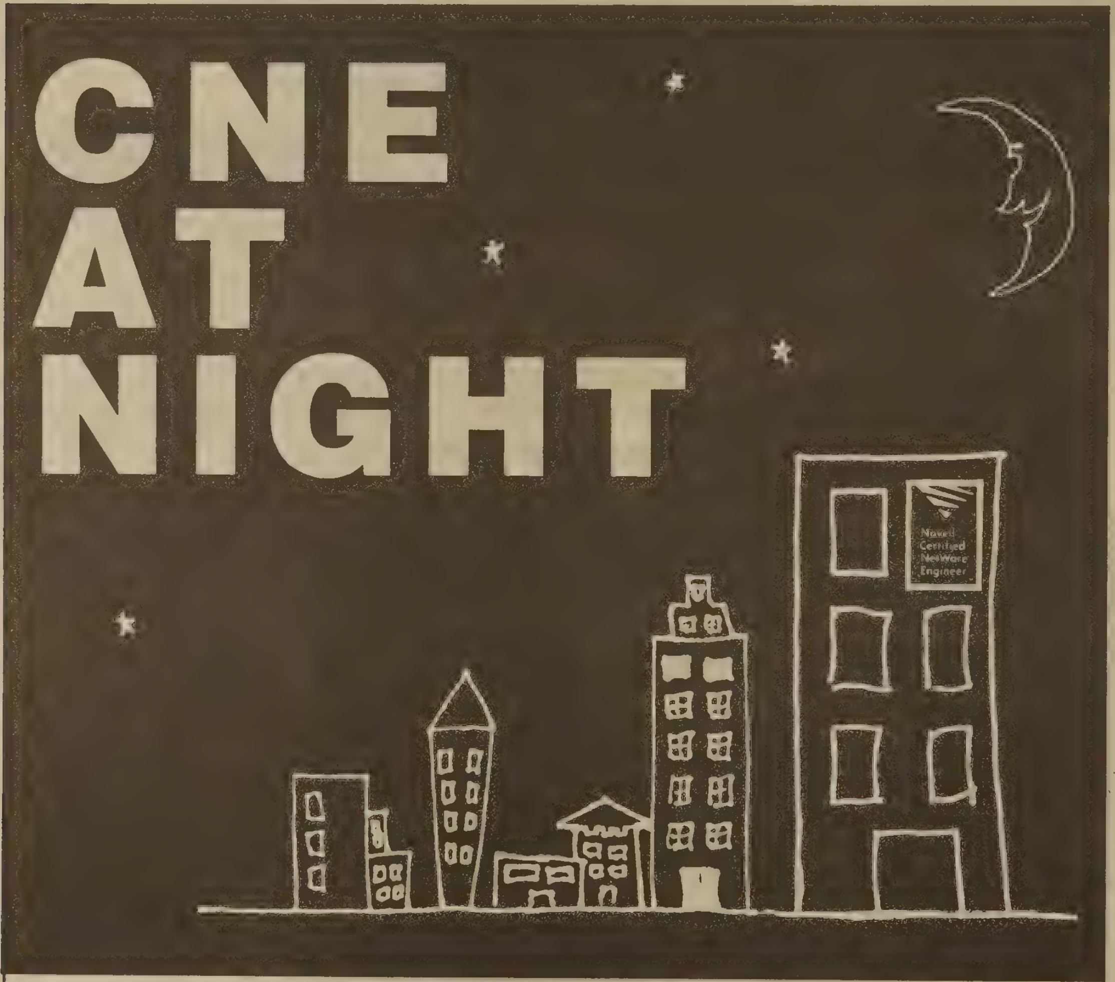
Moderately low-end packages that TAL does support include: Computer Associates Simply Accounting, DacEasy, MYOB, PeachTree, and QuickBooks.

A Short List For Considering

For those who only occasionally need to get a bill out the door, some very inexpensive, no-bells-or-whistles T&B software is available. A short list appears under Resources.

Easy Time & Billing (for Windows) from Outlook Software lists for $39.95. The invoices record all the service-oriented information you'd need: client identification, activity, time spent, out-of-pocket expenses, charges, and space for detailed descriptions. Reports are basic—you won't be able to design a custom letterhead or select your favorite font. But the bills are perfectly respectable for professional purposes. True to its name, the program is easy to learn and use, and won't give you any trouble getting your bills out the door.

Another inexpensive Windows package is Perfect Time from M-USA Business Systems, Inc. ($49.95). Input screens are straightforward, and the program generates attractive, professional bills. The documentation claims that Perfect Time exports data to any program that imports .QIF files such as Pacioli 2000, Mondial, and Quicken with an accounting link that costs noth-



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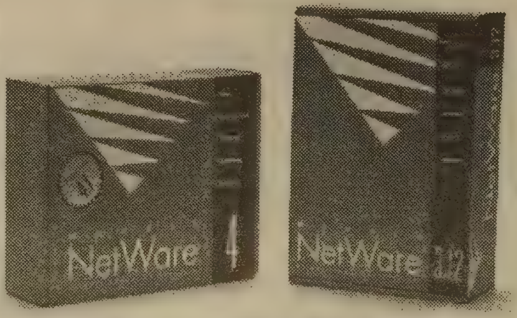

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ing extra. We did not actually test drive the linking capabilities, however, so can't attest to whether or not Quicken users would be satisfied.

For a few bucks more, consider Responsive Time Logger (for Windows) from Responsive Software ($79). The advantage of Responsive Time Logger is that it stores information in dBASE format, so you can export and manipulate client information at will. Indeed, the small additional amount you pay for this capability could spare you from re-entering massive amounts of data by hand when you upgrade software or merge your practice with someone else's.

Beware—some packages that are more expensive lack the capability to convert data into standard formats such as dBASE, Paradox, or ASCII delimited files. Vendors are always happy to trap unsuspecting customers into migrating up to their fancier versions. But accounts receivable software that is incompatible with the rest of the world should be avoided, even if it seems cheaper at first, because the need to integrate is central to its value.

Timeslips is a comprehensive package that's been around since the early '80s. It is a powerful and highly flexible program that can easily support smaller (and some mid-size) professional firms. This year they released a new version, Timeslips Deluxe.

It has more features than most small professional firms will need, and it generates a wide variety of reports including some to assist with practice management and staff efficiency. Timeslips allows for decentralized timekeeping, whereby each practitioner enters his or her own time rather than having a single data input person.

On the downside, Timeslips seems a bit stodgy, failing to take full advantage of Windows' graphical ease of use. Timeslips runs relatively slowly and sometimes feels like a DOS interface pasted over a Windows background. The invoice template, for example, lacks WYSIWYG review capabilities and GUI features to which we've grown accustomed.

Indeed, Timeslips was years slow in bringing any Windows product to market, and they don't yet seem to have fully accepted the idea. Tried and true? For sure. Innovative and peppy? Not.

What consultant end-users need is flexible time and billing that seamlessly integrates with the simpler personal accounting packages, as well as low-end general accounting software. Unfortunately, the vendors now leading the consumer market can be fiercely uncompetitive and uncooperative. Whatever package you decide on, avoid locking into dependence on a single supplier. Consider whether you can convert client data into standard formats, or if you might find yourself trapped in a jealous vendor's proprietary idiosyncracies. ■

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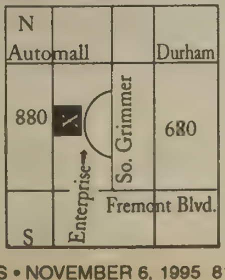

WHO WINS?

486 Green ISA VLB

- 486 ISA VLB 256K Cache EPA Green Motherboard
- 4MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- 640MB Western Digital Caviar WD-2635 E-IDE HD
- VLB IDE Controller w/ 2 serials, 1 parallel
- Trident 9440 VLB 1MB Windows Accelerator
- 14" 1Kx768NI 0.28DP Digital Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard
- 3 Button MS Compatible Mouse w/ Pad

100DX4 $867
120DX4 $896
Cyrix5X $1009

486 Green ISA PCI

- 486 ISA PCI 256K Cache EPA Green Motherboard w/ PCI Bus Master Enhanced IDE, 2 x 16550 UART's & ECP/EPP
- 8MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- 640MB Western Digital Caviar WD-2635 E-IDE HD
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- Creative Labs Sound Blaster Vibra 16 Stereo Sound Card
- Trident 9440 PCI 1MB Windows Accelerator
- 14" 1Kx768NI 0.28DP Digital Green Monitor
- Premium Digital Mini Tower 230W PS
- Mitsumi 101 Enhanced Keyboard
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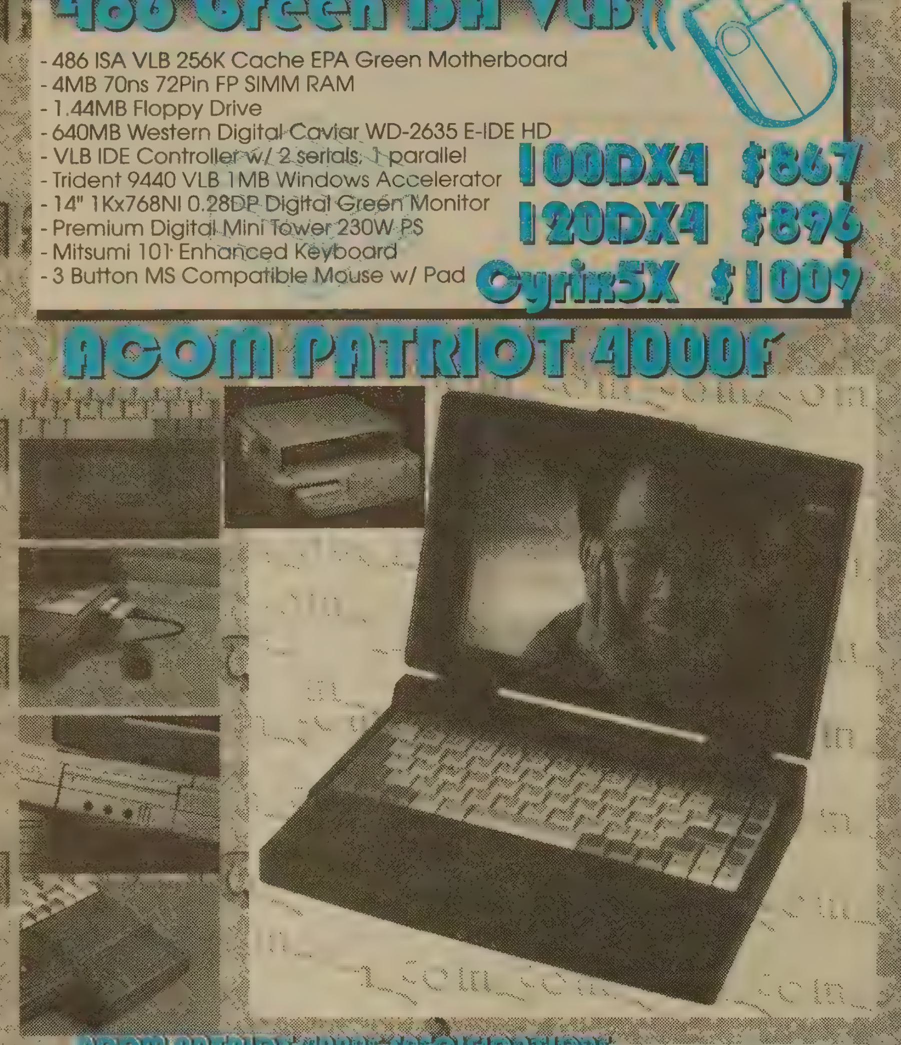
120DX4 $1246
Cryix-5X $1354

ACOM PATRIOT 4000F



ACOM PATRIOT 6000A

ACOM PATRIOT 4000F SPECIFICATIONS

CPU
- 486DX2-66SL, 486DX4-100SL or Cyrix5X-100

BIOS
- 1MB Phoenix systems Flash BIOS

Memory
- 4MB/8MB RAM Module support, expandable to 8/12/16/20/24/32MB

Display
- 32Bit VLB VGA sub-system with 1MB video RAM onboard
- Support LCD/external monitor simultaneous display
- LCD resolution: 640x480x256 colors with virtual screen
- CRT resolution: 1024x768x256 colors
- Programmable screen saver
- 1024x768 super VGA non-interlaced external output
- 10.4" VGA DSTN DualScan color LCD
- 10.4" VGA TFT ActiveMatrix color LCD

Data Storage
- Built-in one removeable 3.5" 1.44MB FDD,
- Built-in one 2.5" 510MB harddrive and up
- Programmable power down feature

PCMCIA
- Built-in 2 PCMCIA type-II slots or 1 type-III slot

I/O Ports
- 1x9 pin serial port (16550 UART)
- 1 x25 pin parallel port (EPP/ECP support)
- 1 x15 pin external monitor port
- 1 x200 pin docking interface

Audio
- Built-in speakers and microphone
- Built-in 16bit audio compatible with Sound Blaster 16 and Windows Sound System
- Line-in, Line-out and external microphone jacks

Pointing Device
- Built-in PS/2 capacitive touch-sensitive trackpad

Keyboard
- 86 keyboard with support for all keys of an AT-enhanced keyboard inverted "T" cursor control keys.
- 12 total function keys
- Integrated numeric keypad functions

Power System
- Auto-sensing 110V-240V AC adaptor
- Removeable & rechargeable 33.6Wh NiMH battery pack
- Support two indentical battery packs with warm swap
- 4 hour single battery life, 8 hour dual battery life

Dimemsion
- 8.7"(D) x 11.4"(L) x 1.88"(H)

Weight
- 5.9LBS (with battery)

ACOM PATRIOT 6000A SPECIFICATIONS

CPU
- 486DX4 100SL or Cyrix5X-100

BIOS
- 1MB Phoenix systems Flash BIOS

Memory
- 8MB RAM onboard, up to 8/12/16/20/24/32MB using industrial standard 72 pin SIMM

Display
- 32Bit VLB VGA sub-system with 1MB video RAM onboard
- Support LCD/external monitor simultaneous display
- 10.4" VGA DSTN DualScan color LCD
- 10.4" VGA TFT ActiveMatrix color LCD

Data Storage
- Built-in one 2.5" 510MB harddrive and up
- Built-in one removeable 3.5" 1.44MB FDD,
- replaceable with 5.25" 2X/4X ATATPI IDE CD-ROM

PCMCIA
- Built-in 2 PCMCIA type-II slots or 1 type-III slot

I/O Ports
- 1 x9 pin serial port (16550 UART)
- 1 x25 pin parallel port (EPP/ECP support)
- 1 x15 pin external monitor port
- 1 x200 pin docking interface

Wireless Link
- Built-in IrDA compatible HP infra-red Transmitt mod

Audio
- Built-in speakers and microphone
- Built-in 16bit audio compatible with Sound Blaster and Windows Sound System
- Line-in, Line-out and external microphone jacks

Pointing Device
- Built-in PS/2 capacitive touch-sensitive trackpad

Keyboard
- 86 keyboard with support for all keys of an AT-enhanced keyboard inverted "T" cursor control keys.

Power System
- Auto-sensing 110V-240V AC adaptor
- Removeable & rechargeable 33.6Wh NiMH batte

Dimemsion
- 8.82"(D) x 11.5"(L) x 1.89"(H)

Weight
- 6.2LBS (with battery)

Optional devices:
- 5.25" 2x ATAPI IDE CD-ROM drive
- 5.25" 4x ATAPI IDE CD-ROM drive
- Car Adaptor
- SmartDock Docking Station

PATRIOT 4000F - Dual Scan 10.3" Screen with 4MB RAM

CPU Type	540MB	810MB	1.3GB HD
486DX2-66SL	$1795	$1825	$1990
486DX4-100SL	$1840	$1870	$2035
Cyrix 5X-100	$1965	$1995	$2160

PATRIOT 6000A 10.4" Screen with 8MB RAM

(540/810MB/1.3GB HD)	Dual Scan	Active Matrix
486DX4-100SL	$2210/$2350/$2515	$2730/$2870/$3035
Cyrix 5X-100	$2335/$2475/$2640	$2855/$2995/$3160

340MB 2.5" IDE HD	$185	PCMCIA 14.4 Fax/Data	$99	Car Adaptor 12V	$45
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1.3GB 2.5" IDE HD	$595	PCMCIA SCSI Interface	$165	4000F Docking Station	$465
PCMCIA 2X CD-ROM	$255	NiMH Battey Pack	$105	6000A CD-ROM 2X Drive	$265

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4 BusMastering PCI Enhanced IDE ports, 2 x 16550 UART's & ECP/EPP
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MB Floppy Drive
MB Western Digital Caviar WD-2635 E-IDE HD
nt 9440 PCI 1MB Windows Accelerator
280x1KNI 0.28DP Green Monitor
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umi 101 Enhanced Keyboard
tton MS Compatible Mouse w/ Pad

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75MHz	$1310
90MHz	$1389
100MHz	$1496
120MHz	$1682
133MHz	$1821

Pentium 200MHz PCI

- Pentium Triton Chipset PCI 256K Cache Motherboard supporting 75 to 200MHz CPU w/ Socket 7 & VRM, upto 512K SYNC Cache using CELP COAST FastPage/EDO, w/ 4 PCI Bus Master Enhanced IDE, 2x 16550 UARTS & ECP/EPP
- 8MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- 1.28GB Conner CFS1275A Fast IDE HD
- Toshiba XFM-5302B QuadSpd IDE 256K CD-ROM
- Creative Labs Sound Blaster Vibra 16 Stereo Sound
- Diamond Stealth 64 Video 2MB DRAM Accelerator
- 15" 1280x1024NI 0.28DP Digital Green Monitor
- Premium Digital Mini Tower 230W PS
- KeyTronic 101 ProTouch Enhanced Keyboard
- MicroSoft Ergonomic Mouse w/ Pad

75MHz	$1695
90MHz	$1774
100MHz	$1881
120MHz	$2067
133MHz	$2206

**Call for EDO memory, Pipelined Burst Sync Cache upgrades

SURE RUN WINDOWS 95

Pentium Intel Endeavor

- Pentium Intel-Made Endeavor EV Triton Chipset PCI 256K Async Cache Motherboard supporting 75 to 133MHz CPU w/ VRM, upto 512K Pipelined Sync Cache using CELP COAST module FastPage/EDO upto 128MB, w/ 4 PCI Bus Master Enhanced IDE, 2x 16550 UARTS & ECP/EPP built-in Creative Labs Sound Blaster Vibra Stereo 16 w/Line-in/out,MIDI port, WaveTable Socket
- 16MB 70ns 72Pin EDO SIMM RAM
- 1.44MB Floppy Drive
- 1.28GB Conner CFS1275A Fast IDE HD
- Toshiba XFM-5302B QuadSpd IDE 256K CD-ROM
- Diamond Stealth 64 Video 2MB VRAM Windows Accelerator
- 15" Hitachi Superscan NS1587 1280x1KNI 0.28DP Monitor
- Premium Digital Medium Tower 230W PS
- KeyTronic 101 ProTouch Enhanced Keyboard
- MicroSoft Ergonomic Mouse w/ Pad

**Call for Pipelined Burst Sync Cache upgrade

75MHz	$2162
90MHz	$2242
100MHz	$2349
120MHz	$2535
133MHz	$2675

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AIR Dual Pentium EISA PCI

- AIR Pentium 54CEP 512K Cache EISA PCI Motherboard w/ PCI Bus-Mastering Adaptec 2940W built-in on brd, 2x 16550 UARTS, & ECP/EPP
- 16MB 70ns 72Pin FP SIMM RAM
- 1.44MB Floppy Drive
- Fujitsu 2.1GB Fast Wide SCSI-2 68Pin 512K 10ms M2915QAW HD
- Panansonic CD-504B Quad-Spd SCSI-2 CD-ROM
- Creative Labs Sound Blaster Vibra 16 Stereo Sound w/ Audio Cable
- Matrox MGA Millennium PCI 2MB Window RAM (WRAM)
- 17" MAG DX-17F 1280x1KNI 0.28DP Digital Green Monitor
- Premium Digital Full Tower 250W PS
- KeyTronic 101 ProTouch Enhanced Keyboard
- MicroSoft Ergonomic Mouse w/ Pad

**Dual CPU support requires
AIR 54CDP Dual P5 Motherboard
** Call for Dual 120/133MHz Configuration

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Dual-100MHz	$4344

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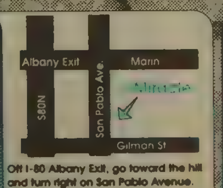

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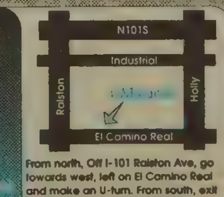

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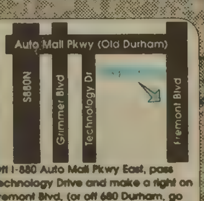

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OUR SERVICE, OUR COMMITMENT

[illegible] switches setup/configured, DOS v6.22, Windows V3.11,(or Windows 95) and all included software installed for testing purpose, high resolution video monitor mode tested and continously burned in for 48 hours on all components and finally interactively inspected for trouble-free operation. All systems are to be inspected by customer at pick up time.
- Most advertised standard systems have been pre-built, burn-in tested and are ready to be picked up or delivered within 30 minutes IN FREMONT MAIN OFFICE - Please allow more time for minor configuration changes. Standard delivery time is 72 hours.
- Free delivery area includes local area within 30 minutes driving distance. No delivery on weekends. Delivery out of local area will be charged up to $30 freight.
- Most components come with over 1 year manufacturer warranty - First year will be covered by UMiracle. Warranty after the first year will be covered by component manufacturers.
- While-you-wait immediate service should there be any neccessary warranty repair. If we couldn't solve the problem, another system will be built (at our discretion, if purchased within 30 days.)
- All pickups, repairs, exchanges, upgrades can be done in either Fremont, Belmont or Albany store. Original invoices & records required.

Hardware Components for your PC Upgrades

486 UMiracle Green ISA VLB 256K - 3 VLB, upto 128MB & 512KB Cache, Support 30 & 72Pin SIMM, P5 OD suppt, ZIP, Full Deep Green PC EPA compliance - shut off HD, Green Monitor, CPU Slow Down, Award BIOS, PnP, Onbrd 3.3V CPU Suppt	
486 UMiracle Green ISA PCI 256K with Enhanced Mode 4 IDE, HiSpd I/O, upto 128MB & 1MB Cache, support 72Pin SIMM, P5 OD suppt, ZIP, Full Deep Green PC EPA compliance - shut off HD, Green Monitor, CPU Slow Down, Award BIOS, PnP, Onbrd 3.3V CPU Suppt	
Pentium Intel-Made Zappa PCI 256K Cache with Triton chipset 75/90/100MHz, 3 PCI + 4 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering PCI-IDE Interface, FD, 2 hi-spd Serials, enhanced Parallel, support 4 IDE HDs, PnP Ready, Flash AMI ROM, APM PowerSaving	
Pentium Intel-Made Endeavor PCI 256K Cache with Triton chipset, 75-133MHZ, upto 512K Async/Sync Cache, 4 PCI + 3 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering Mode 4 PCI-IDE interface, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP Ready, Flash AMI ROM, APM Power Saving, Built-in Sound Blaster Vibra 16S + Yamaha OPL3LS 16bit stereo sound with line-in/out, Joystick, WaveTable connector, CELP COAST (Cache On a STick) Cache socket	
Pentium 200MHz PCI Async 256K Cache w/ Triton chipset, 75-200MHz with Socket 7 and VRM (Voltage Regulator Module) P6 Overdrive support, upto 512K Async/Sync Cache, 4 PCI + 3 ISA slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Master Mode 4 PCI-IDE interface, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP Ready, CELP COAST (Cache On A STick) Cache socket	
ASUS P/I-P55TP4XE Pentium PCI 256K Cache w/ Triton chipset, 75-150MHz with VRM (Voltage Regulator Module) P6-Overdrive support, upto 512K Async/Sync Cache, 3 PCI + 4 ISA + 1 ASUS MediaBus slots, support Fast Page or EDO 72Pin SIMM upto 128MB, built-in Bus-Mastering Mode 4 PCI-IDE interface, FD, 2-16550 UARTs, ECP/EPP, support 4 IDE HDs, PnP Ready, CELP COAST (Cache On A STick) Cache Socket	
PS/2 type mouse port connector for ASUS motherboard	
AIR Pentium 586 54CEP 512K - 90-133Mhz EISA/PCI - 3 PCI/4 EISA (ISA Compatible) slots, ZIF, Intel Mercury chipset, upto to 512MB by 72Pin SIMM, Bus-master, AMI BIOS, 32-bit PCI bus-master SCSI ports using Adaptec AIC 7870 controller(AHA-2940W equivalent) supporting 50Pin Fast SCSI-2 & 68Pin Fast WIDE SCSI-2 onbrd floppy ports supporting 2.88MB, 2-16550 UARTs, ECP/EPP Parallel port, 50pin SCSI cables & complete software driver	
AIR Pentium 586 54CDP Dual 512K Neptune Chipset - 90-133MHz Same as above except supporting 2 CPUs	

Pentium P5-75/90/100/120/133MHz CPU	
Intel 486-66DX2/100DX4	
AMD 486-66DX2/80DX2/100DX4/120DX4 3.3V	
Cyrix 5X Pentium OverDrive for 486 motherboard	
8Kx8/32Kx8/64KX8/128Kx8 Cache SRAM	
256K Async Cache COAST module	
512K Async Cache COAST module	
256K Pipelined Burst Synchronous Cache COAST module	
512K Pipelined Burst Synchronous Cache COAST module	
1MB DRAM for Video Card (256Kx16-70ns DRAMx2pcs)	
2MB VRAM for Video Card (256Kx8-70ns VRAMx8pcs)	
4MB RAM SIMMs (1M-70ns 30-Pin SIMMx4pcs)	
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16 Bit IDE/2FD with 2S/1P/1G 2.88MB support, HiSpd 16550 UART's on Serial ports	
VLB 32 Bit Enhanced 4-IDE/FD 2S/1P/1G Controller Supporting 4 Mode3 & 4 E-IDE devices	
VLB 32 Bit Enhanced 4-IDE/FD 2-16550 UARTs + EPP/ECP Controller Supporting 4 Mode3 & 4 E-IDE devices	
Adaptec 2940 PCI Fast PCI SCSI-2 Kit	$186
Adaptec 2940W PCI Fast WIDE SCSI-II, 20MB/s burst, 15 SCSI devices support w/ 50 & 68Pin cable Cmplete Kit sftwre	$235
NCR SCSI-2 53C810 Bus-Mastering PCI Controller	
SideGold VLBus Fast SCSI-2, Enhanced-IDE w/ hi-speed I/O Controller - Implement with latest Adaptec SCSI 6360 chip supporting HD > 2GB, up to 10MB/Sec DTR, complete EZ-SCSI Software, support E-IDE HD > 528MB, Mode 3/4 protocol, compatible with ATAPI E-IDE devices. 2 hi-speed 16550 UART serial ports, programmable baud rate generator, bi-directional multi-mode parallel port with ECP/EPP, jumperless desgn	
Side Junior Pro VLBus Enhanced-IDE w/hi-speed I/O Controller with Built-in BIOS supporting 4 Enhanced IDE even if your old VLB motherboard does not support E-IDE, no software driver needed 2x16550UARTs, EPP, jumperless onboard	
External SCSI-2 50Pin Micro-D Adapter for any onboard internal 50pin ribbon cable SCSI interface	

FAST WIDE SCSI-2 internal Ribbon Cable, hi-density, 68Pin, 2 connectors / 3 connectors	
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SCSI Cable Micro-D 68Pin to Micro-D 68Pin 6"	
SCSI-2 50pin / Micro-D 50Pin / Micro-D 68 Pin External Terminator	
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Intel EtherExpress 16 Coaxial/10BT/Combo	
Intel EtherExpress Pro 10/100BaseT PILA 8465 PCI	
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3COM Etherlink III 3C590-CB Bus-Mastering PCI Combo	
3COM Etherlink III 3C590-TPO Bus-Mastering PCI 10BT	
3COM Etherlink III 3C509 16bit Coax/10-baseT	
3COM Etherlink III 3C509 16bit Combo	
3COM Etherlink III 3C579 EISA 32bit 10-baseT/Coaxial	

Trident 16Bit ISA 512K/1MB	
Trident 9440 Windows Accelerator PCI/VLB 1280x1024, 16.7Million Color 1MB/2MB	
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Diamond Stealth 64 Video VRAM PCI 64Bit Graphic Engine S3-968 2MB/4MB VRAM Version	
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Matrox MGA Millennium 2MB/4MB WRAM PCI	
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Sony CPD-15SF 15" Trinitron 0.25DP 1280x1K, 3yr Warranty	
Sony CPD-17SF 17" Trinitron 0.25DP 1280x1024, 3yr Warnty	
IIYAMA VisionMaster MF-8617E 17" FST .26DP, PnP, Microprocessor Contrl, 1280x1024@80Hz, VESA DPMS	$740
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USR Sportster 28.8K V.34 Data/Fax Internal/External	
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Mitsumi 101 Enhanced Keyboard	
KeyTronic 101 Enhanced U.S. Made	
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MS Windows 95 Upgrade Disk/CDROM Retail version	
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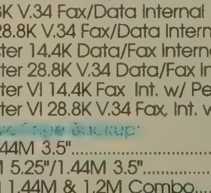

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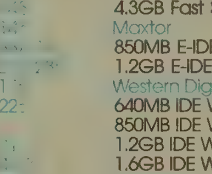

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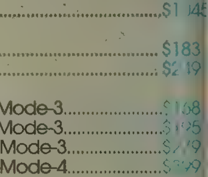

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BY LENNY BAILES

Mobile Computing With Windows 95

To Upgrade, Or Not To Upgrade?

his article dresses the concerns of Win 95 Road arriors. Should you become one, or are you tter off sticking with DOS and/or Windows x on your notebook machine?

These are the most common questions asked people considering a Windows 95 upgrade:

- Is it really much better than the old version Windows?
- Will it run on my current mputer, or do I need a hard-are upgrade?
- What about my current DOS d Windows software? Will I still able to use it all under the new erating system?

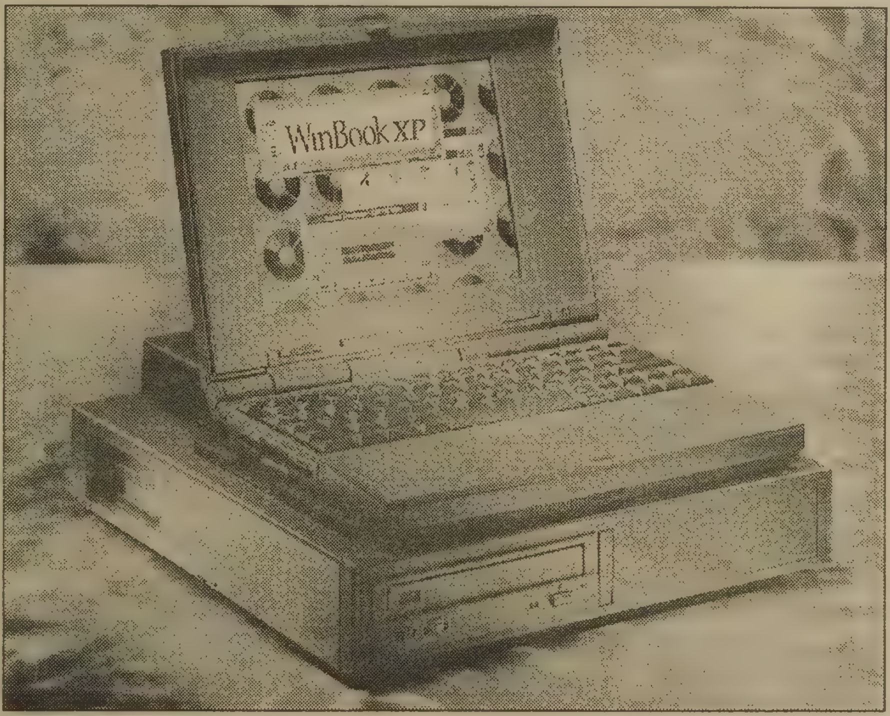
e answers to these queries hich will help you to make buy-g decisions) depend largely on ur personal computing needs d the power of your existing rdware.

With the right notebook hard-re, an upgrade to Windows 95 eminently desirable. The added atures and ease of use of the w operating system can simpli- your day-to-day computing sks. But if you must make do th a less powerful, 4MB notebook with a all hard disk, you're better off sticking with indows for Workgroups.

hy Upgrade, Anyway?

r newer, more powerful systems, Windows 95 ally makes life easier. Advanced power man-ement, auto-installation of PCMCIA cards, t docking to a workstation, automatic network connections, and convenient email and fax management are all present in the operating system, waiting to be exploited.

Windows 95 mostly eliminates the need to fidget with third-party software for CD-ROMs, SCSI devices, and PCMCIA socket services. Just pop a PCMCIA modem, controller card, or added memory into a socket, and Windows 95 magically detects it. Plug a notebook into a docking station, and the system configuration is automatically swapped to recognize new ports, peripherals, and network connections.



[Link Figure 1]

In addition to the auto-configuration advantage for PCMCIA hardware, Windows 95 offers a number of software benefits for computing on the road.

Dial-Up Network /Direct Cable Connection: Windows 95 includes a Dial-Up adapter that allows you to dial into the Internet or connect via modem to a network server through TCP/IP, Novell IPX, or Microsoft NETBEUI protocols. All the support you need to do this is included in Windows 95: third-party software is not required. Win 95's Direct Cable Connection feature allows two computers running Windows 95 to share files and printers on a peer-to-peer basis.

Briefcase: The Win 95 Briefcase allows local and remote directories to be synchronized. You may edit files off the network in a designated directory and have the changes copied automatically to the host machine the next time you connect.

Deferred Printing: Windows 95 allows you to work offline with a network printer. When you're not connected, you can still print as many jobs as you like. The output is stored in a spool directory on the notebook. The next time you connect to the network, the jobs are automatically queued and spooled to your network printer.

Microsoft Exchange: The version of Exchange bundled with Windows 95 provides email management for a number of telecommunication services and fax management in one convenient interface. By default, you can use Exchange as a mail management tool for the Microsoft Network. Support for CompuServe mail is included on the Win95 CD, and support for third-party Internet providers can be downloaded from Microsoft's bulletin

WITH THE RIGHT NOTEBOOK HARDWARE, AN UPGRADE TO WINDOWS 95 IS EMINENTLY DESIRABLE

board or your favorite commercial service. (If you install the Microsoft Plus Pak, this support is included and configured automatically.)

Hot docking dependent upon Plug 'n' Play BIOS: If your notebook computer has the current Microsoft/Intel Plug and Play BIOS, it will automatically reconfigure itself whenever you plug it into or remove it from a docking station. Older notebooks can cold-dock. (This means you must power down the system and reboot each time you connect or disconnect from a docking station.)

Hardware Requirements For Win 95 Mobile Computing

A top-range Road Warrior notebook suited to Windows 95 will have 12MB to 16MB of onboard RAM, a 486DX4/100 or faster processor, PCMCIA Type II and III slots, and a 500MB hard disk.

This machine may also include an internal modem, sound card, and built-in SCSI support (or access to a docking station equipped with a CD-ROM drive). The nicest of these machines include built-in CD-ROM drives, 32-bit video processing, and/or 32-bit disk access implemented through a VESA or PCI system bus.

Notebooks unsuitable for Windows 95 include older machines with 386 CPUs, non-VGA displays, less than 8MB RAM, and small hard disks (less than 200MB).

This leaves a large number of notebooks in between the desirable top-range and incompatible bottom-range configurations. A midrange 486 notebook with 8MB of RAM is functional for basic computing tasks under Windows 95, but it may have difficulty taking advantages of some of the operating system's bells and whistles. Application performance may also be a bit sludgy. The midrange group of notebooks consists of 486SX/25 to DX/50 units configured with 8MB of RAM and older ISA video and disk controllers. Many of these machines don't offer specific support for multimedia. They have no built-in sound cards, SCSI ports, or other support for CD-ROM.

If your notebook has a 486 CPU, 8MB of RAM, and a small hard disk, you may use it to derive some satisfaction out of Windows 95. The absence of a sound card or CD-ROM support can be remedied, in some instances, by the addition of PCMCIA peripherals (now referred to by Microsoft and Intel as "PC Cards").

Testing

For this review, I tested Windows 95 on a Toshiba Satellite 2400CT notebook with such a configuration.

Prior to installing Windows 95, I ran Stac Electronics' Stacker 4.0 disk compression package to expand the amount of available hard disk space from 340MB to almost double that amount. Windows 95 itself will occupy from 65 to 140MB of storage space.

The portable Win 95 configuration you can select excludes features like the interactive tutorials, multimedia files, Microsoft Network, and Microsoft Exchange email and fax support. If you want to keep these features and upgrade an existing Windows for Workgroups configuration, allow a minimum of 120MB for the new operating system. This estimate also assumes you have some pre-installed Win 3.x applications and allows for future software upgrades. (If you're a Microsoft Office user, you'll find that 15MB to 20MB of space under the \WINDOWS directory is occupied by the plug-in utilities and drivers installed with Excel, Word, etc. If you're not an Office user, you may subtract 15MB from the required total, but remember that Novell Perfect Office or Lotus SmartSuite may fill it right back up again.)

Making Room On A Small Hard Disk

If your notebook's hard disk has a storage capacity of 200MB to 350MB, disk compression software makes Windows 95 a more viable option. Using disk compression slows down performance, but if you want to take Windows 95 on the road for its enhanced features, you can probably live with this.

Most users will probably want to select Microsoft's DoubleSpace rather than Stacker. Stacker creates more disk space, but DoubleSpace is included for free in both MS-DOS 6.xx and Windows 95.

Windows 95 reads and writes to DoubleSpace drives through a 32-bit, protected-mode interface. This is faster than Stac's real-mode compression. If you're willing to spend another $49, you can purchase an enhanced version
DoubleSpace in Microsoft's Windows 95 Pl
Pak. The enhanced DoubleSpace in the Pl
Pak has compression capability that close
matches Stacker's. Plus Pak also includes a
of desktop color schemes and Microsof
Internet Connectivity kit. The Internet kit
useful if you want to select the Micros
Network as your Internet service provider.

Still, on my notebook systems, I use Stack
instead of DoubleSpace. My reasons for this a
1) I was using Stacker prior to upgrading
Windows 95, and it was less trouble to ke
Stacker than to uncompress my drives a
reformat; and 2) I'm in the habit of installi
Warp OS/2 on the computers I use to comp
ment Microsoft operating systems. Stacke
compressed volumes are readable by bo
operating systems. DoubleSpace volumes a
not recognized under OS/2.

You should be aware that Stacker compre
sion does work with Windows 95, and St
Electronics now has an upgrade versi
(Stacker 4.1) that includes support for Win 9
long filenames. Stacker 4.0 works, but you ca
use its built-in defragmenter without destro
ing Win 95 long filenames. Win 95's built-
ScanDisk utility can repair file errors on
Stacker drive, but it can't repair compressi
errors. Stacker 4.1 is still a 16-bit real-mo
compression system, but it runs considerab
faster under Windows 95 than Stacker 4.0.

Installation Issues/CD-ROM Support

The Toshiba Satellite 2400CT has a built-in SC
port, which allowed me to plug in an extern
CD-ROM drive and install Windows 95 witho
a hitch.

I also tested a WinBook XP notebook with
built-in SCSI support. WinBook XP owners ha
the option of purchasing an additional docki
station, which includes a quad-speed Toshi
CD-ROM drive. The WinBook XP plugs rig
into the docking station, also allowing Windo
95 to be installed from CD.

If your notebook does not include implic
CD-ROM support, you have several other alte
natives for installing Windows 95.

1) You may install from floppy disks.

continued on page

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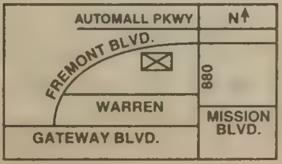

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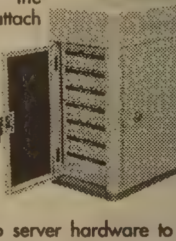

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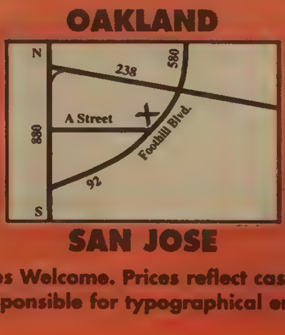

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Mobile Computing With Windows 95

continued from page 86

2) If you have access to another computer with a CD-ROM drive and to a portable file transfer utility, you can connect your notebook to the machine with the CD-ROM via a serial or parallel cable. Create a Win 95 installation directory on the notebook's hard disk and use your file transfer utility to copy the WIN95 directory from the CD-ROM to the notebook.

This installation directory will occupy about 35MB of hard disk space on the notebook. You can then install (and subsequently update) Windows 95 from the local installation directory you've created.

Note: if you use the DOS Interlink program to transfer the installation files from one machine to another, an additional step is involved. Interlink doesn't recognize CD-ROM drives. But you don't have to let that stop you. You can copy the Win 95 installation directory locally from the CD-ROM to a directory on that machine's hard disk. Interlink will see this directory, allowing you to transfer it via cable to your notebook's hard disk.

3) If you have a portable, external CD-ROM drive but no SCSI support on your notebook, you can purchase a PCMCIA SCSI card. These cards cost from $250 to $350, and if you get the right one, Windows 95 will automatically recognize it as soon as you plug it in.

The trick here is that if you haven't installed Windows 95 yet, you'll need to use the third-party software provided by the vendor to recognize the CD-ROM drive before installing Windows 95. This probably won't be completely automatic, but it usually works if the vendor's drivers were designed to support your notebook. Or you can install Windows 95 first from floppy disks or through the CD-to-hard disk file transfer method.

Once Windows 95 is up and running, you can plug a supported card into a PCMCIA slot, and it will be recognized automatically. I found this to be true with the New Media Bus Toaster SCSI Card. I plugged it in, attached it to my external CD-ROM, and the next time the system booted, it was ready for action.

The XJ-2288 28.8K PCMCIA modem provided to me by MegaHertz, Inc. also installed itself effortlessly when I put it into a Type II slot. You should experience similar trouble-free modem configuration provided the second serial port address (COM2) is vacant on your notebook.

The Winbook XP notebook that I tested normally ships with an internal 14.4K modem set up for COM2. When I inserted the MegaHertz modem on this computer, Windows 95 attempted to set it up for COM3 (as it should). The problem with this is that the default interrupt assigned to the modem became IRQ10. This was fine for the 32-bit telecommunication applet bundled with Windows 95, but none of my DOS and Windows 3.x applications were programmed to recognize interupts other than IRQ3 and IRQ4.

Fortunately, there was an easy solution. I didn't really need two modems active on the system, so I removed support for the WinBook's internal modem through the computer's CMOS

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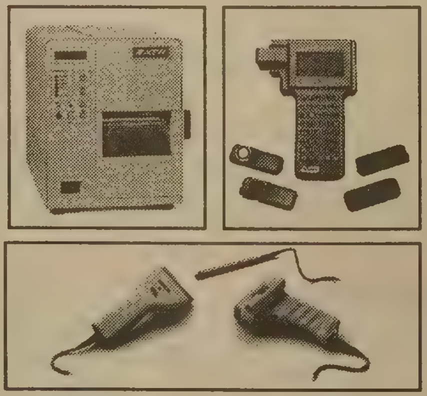

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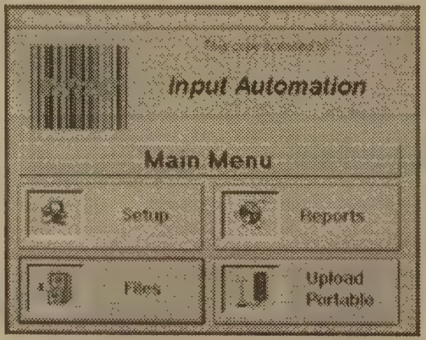

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settings. The next time I booted, Windows 95 assigned the PCMCIA modem to the conventional COM2/IRQ3 address and all was well.

Toshiba 2400CT

The Toshiba 2400CT is a midrange notebook with a 486DX/50 processor and standard hard disk size of 340MB. The model I tested included a built-in Adaptec SCSI port and ESS688 sound card (an 8-bit, Soundblaster-compatible peripheral).

This model is well suited to Windows for Workgroups, and the upgrade to Windows 95 proceeded with no problems. I plugged an external Toshiba SCSI CD-ROM drive into the 50-pin SCSI-2 connector on the rear panel of the machine and installed Windows 95 from CD.

The distinguishing feature of Toshiba's notebooks is the excellence of their display panels (both active matrix and LED) and the good feel of their keyboards and pointing devices. Their dual scan display panel is better designed than many competing models, with a higher refresh rate that avoids annoying screen flicker.

I found that the Video for Windows animations supplied with Windows 95 played back well from the external 2X Toshiba drive. The sound is limited to 8-bit stereo, with tiny plug jacks on the side of the machine that allow you to plug in speakers or headphones.

The Toshiba 2400CT has a well-designed keyboard. Large bkspace key, home, pgdn, pgup, end keys, and cursor arrows are placed logically where you'd expect them to be. The Accupoint mouse tracks well; the cursor doesn't waver as on some other systems. Windows 95's advanced power management support was specifically developed to be compatible with Toshiba hardware. You can expect a maximum of 2.2 hours with a fully charged battery.

The drawbacks of this Toshiba unit for Windows 95 are its older, ISA bus for video and hard disk. With 8MB of RAM, opening and closing programs was sluggish. This was particularly noticeable in running Microsoft Exchange, Win 95's new email and fax management utility. Saving a 25–50-page Word for Windows file would also take as long as two minutes.

The conclusion I drew from this is that 8MB is really a minimal RAM configuration for intensive work under Windows 95, and you really want a fast hard disk. The satisfactory multimedia performance indicates that the CPU is not the bottleneck.

WinBook XP

The WinBook XP is an almost-top-of-the-line notebook for Windows 95 at an extremely reasonable price.

The unit I tested includes 16MB of onboard RAM, a 486DX4-100 CPU, 32-bit video, and an 800MB hard disk with 10ms access time. This model also includes a 16-bit SoundBlaster compatible sound card and a 14.4K internal modem. The WinBook also gives you your choice of pointing devices, allowing you to use a standard two-button trackball, an AccuPoint

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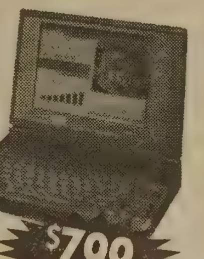

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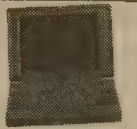

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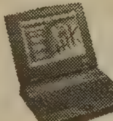

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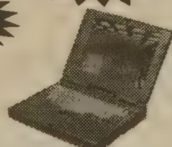

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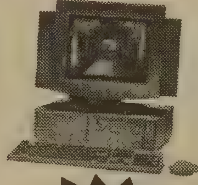

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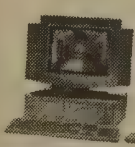

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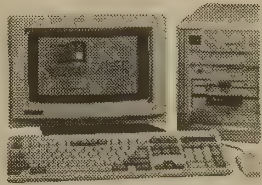

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- Local Bus Video; 512K Video Memory
- 120MB Hard Drive
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- Includes 1 Serial Port, Parallel, Mouse, SVGA Plug, Keypad/Keyboard Ports
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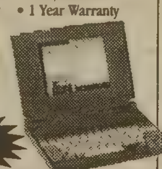

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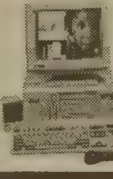

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Mobile Computing With Windows 95 *continued...*

button, or a miniature touch screen.

The WinBook XP has a slightly non-standard implementation of Advanced Power Management, due to the 1993 Phoenix BIOS that the system currently uses. The WinBook's non-recognition of the Advanced APM 1.1 standard does not interfere with the notebook's Resume/Suspend or other power-saving features; it simply prevents Windows 95 from estimating and displaying the amount of remaining battery time on the Taskbar. (Neither the WinBook nor the Toshiba have an Intel/Microsoft Plug 'n' Play BIOS. What this means is that you must "cold-dock" these computers by switching off the power instead o being able to plug them into a docking statio while Windows 95 is running.)

The WinBook XP notebook is up to speed fo Windows 95 in the RAM, CPU, and hard dis departments. Although it does not ship with built-in SCSI port or CD-ROM drive, this sup port can be added easily through the WinBoo Docking Station or New Media Bus Toaste SCSI card.

The docking station is probably the mo economical choice, since it combines a 4X CD

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continued on page 2

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- Deluxe case & AC Adapter

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Active Color	$2520	. .$2620	. . .$2690

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- Built-in **Audio, MIC, Speaker, Sound Blaster & Windows compatible**
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- **32-bit VESA Local Bus Video**
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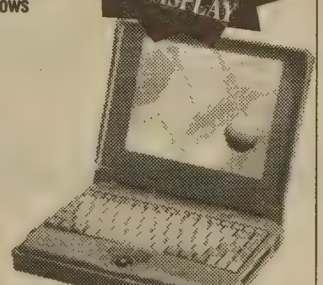

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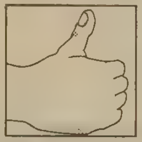

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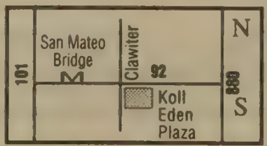

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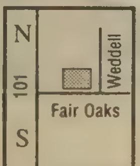

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For the ninth consecutive year, our January 1996 issue will feature our list of distinguished achievers in the personal computer industry, focusing on their particular accomplishments ments during 1995.

Obviously, we're aware of many of the more well-publicized luminaries, and we're certainly on the mailing lists of PR firms galore. However, it's you, the readers, we want to hear from.

So tell us who you think we should honor this year. While there will undoubtedly be many well-known CEO types on this year's list, we'd like to emphasize that past lists have regularly included the likes of junior high school teachers and founders of small nonprofits as well. We know we can't be everywhere and see all the worthy folks for ourselves, so we're counting on you to be our eyes and ears once again.

Please give us as much information as possible about your nominee: why you think they should be honored, where we can reach them, and any other details that you think would be helpful in evaluating your candidate.

We will give ten free one-year MicroTimes subscriptions to randomly-drawn respondents to this survey, so if you'd like ot enter the drawing, please be sure to include your name and address at the end of this form.

In order to be considered, your nomination must be received in our Pleasant Hill office by 9 am on Wednesday, November 15. Nominations may be sent by US Mail, fax, or electronic mail.

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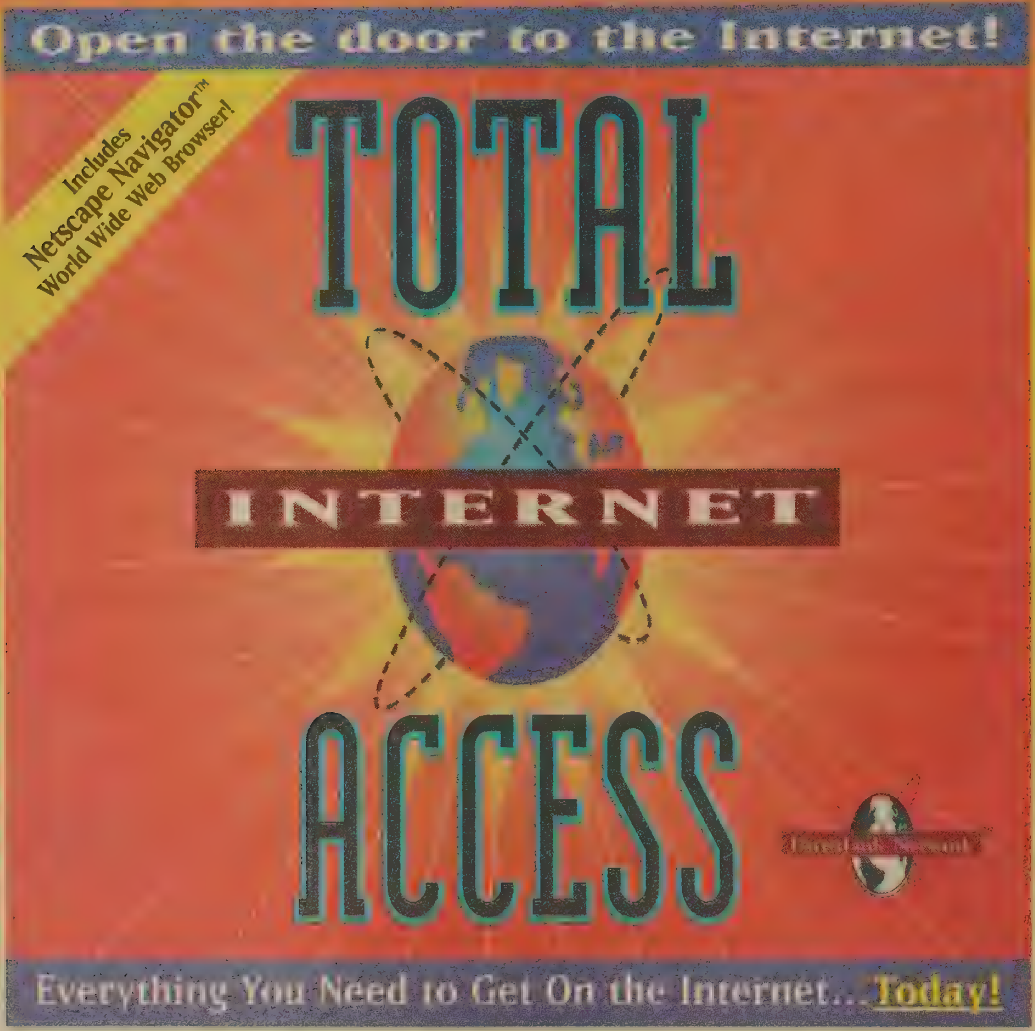
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INTERNET • BY JOHN S. QUARTERMAN AND SMOOT CARL-MITCHELL

When Is A Hacker A Criminal?

The Cautionary Tale Of Randal Schwartz

What is a hacker? Even people who *are* hackers, that is, skilled programmers, often know no other meaning than that commonly used in the press and in movies, i.e. "computer criminal." (If you want to know more about the real meaning, see *ftp://www.tic.com/pub/hacker.*)

So what? It's just a word, isn't it?

Well, words can become labels that determine people's expectations about other people. The cautionary tale herein may be such a case. If you think it's too exotic to apply to you, read on, and see the notes at the end.

Randal Schwartz: The Streets Of Hell Are Paved With Good Intentions

Randal L. Schwartz is a technical writer turned programmer, system administrator, instructor, and author. He began working for Intel in early 1988, and worked there continuously (except for two weeks in late 1988) until the end of 1993.

While working at Intel iWarp (which later became part of SSD, the Supercomputer System Division), he had recommended that his employer maintain basic security by following some standard procedures, such as using good passwords. (This really is basic, as any security expert from DIA to NSA to CERT, the Internet's Computer Emergency Response Team, can tell you.)

He had started checking their passwords by running "crack" in mid-1991. Crack is a program familiar to most system administrators today (and one distributed by CERT; see *ftp://cert.org/pub/tools/crack/*). It attempts to crack a set of passwords, typically as found in a UNIX /etc/passwd file. (Randal was quite familiar with crack, having served as a beta tester for crack v3.) When he left SSD in the middle of 1992 to work for a different Intel division (HF), crack was still running (on autopilot) in SSD.

While working for Intel, Randal had started giving week-long training courses for other organizations around the country. These were about Perl, a popular programming language invented by Larry Wall. Since these courses involved travel, he arranged ways to read his mail at Intel over the Internet while he was still working for Intel but not physically present. This seemed prudent, since, starting in late 1993, he had become responsible for deploying DNS (Domain Name System) servers throughout Intel. Since DNS handles the basic mapping of symbolic hostnames (such as ssd.intel.com) to IP addresses (such as 137.46.3.5), a broken DNS server can adversely affect almost every other TCP/IP service.

MANY PEOPLE ARE AFRAID OF COMPUTER NETWORKS BECAUSE THEY ARE STRANGE AND NEW, AND THEY'RE EVEN MORE AFRAID OF THOSE WHO UNDERSTAND COMPUTERS AND NETWORKS BECAUSE THAT KNOWLEDGE IS POWER. THE TRADITIONAL POWERS THAT BE APPEAR TO BE TRYING TO SLAP DOWN UPPITY COMPUTER PEOPLE.

Thus it was useful to know quickly of any problems with Intel's DNS servers. Intel has previously told the authors that everyone in their company from the president down uses their enterprise TCP/IP network, so we can see how they would want it to continue working.

Randal had coauthored a popular book for O'Reilly and Associates (ORA) about Perl (*Programming Perl*, published January 1991). He also took the obvious next step with his training material, and wrote another Perl book (*Learning Perl*, published November 1993). He had an account on ORA's machines, and figured they wouldn't mind if he did a little testing there. Against ORA's password files, crack found one password out of about two hundred. The ORA system administrator, Tanya Herlick, had already discovered that bad password, so it was cleaned up almost before Randal even found it (not that either of them knew what the other was doing at the time). Thus ORA was a good comparison case for reasonably good security.

In late 1993, while working for Intel, but in a different division (as a system administrator for HF), Randal ran crack against the password file of an SGI machine in SSD where he had an account to support prior work for SSD. It found one password straight out of the dictionary (user "ronb" password "deacon"). Ordinary dictionary-word passwords are very bad, because they're easy to crack sim-

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ply by trying numerous dictionary words; a task that any programmer can accomplish.

Randal decided to see how far the problem extended. He was no longer working for SSD, but he was currently a system administrator in a different division, and he was consulting for corporate on the DNS project. Security is traditionally part of a system administrator's job; a security problem in one division is a security problem in the whole company if it's on the corporate network, since a compromised account on one machine can be used as a base to attack other machines. This particular user also had an account on the main SSD server cluster. Randal guessed that that account would have the same password.

THE CASE WENT TO A JURY TRIAL. SOME OF THE JURY MEMBERS APPARENTLY DID OWN COMPUTERS, BUT OF COURSE ANYBODY WHO MIGHT DO ANYTHING REMOTELY RESEMBLING SYSTEM ADMINISTRATION WAS REJECTED. RANDAL WAS FOUND GUILTY ON ALL COUNTS, ON JULY 25, 1995.

One might well say the prudent course would have been to inform the current SSD system administrators of the problem. But Randal decided to try it himself. It was the same password.

Randal decided to test the password file for the main SSD cluster. He pulled its passwd file over to a fast machine and ran crack on it, and similarly for other machines in that division. Crack broke forty-eight out of six hundred passwords.

It was clear that Intel's security was not very good. Crack had found about fifty likely ways an outsider might break in. Randal thought he was doing his employer a big favor by discovering these weak spots in the compan fence. One of them was particularly bad, since was a vice president's account, and the pass word was "pre$ident," which is an ordinary dic tionary word with one letter (the most obviou letter, S) replaced with a dollar sign.

Unfortunately, Randal was waiting until he ha relatively final results before informing regula SSD staff of what he was doing. Meanwhile, on of them noticed that he was running crack, an told his manager. The manager, rather tha approaching Randal about it, reported it up th hierarchy. Evidently many of the powers that be Intel thought they had discovered a corporate sp

Three days later, Randal discovered some thing was amiss when police arrived at hi house on November 1, 1993. About half dozen of them took all his computer equip ment and kept it for forty days. He was als terminated from Intel within the same tw hour period as the raid.

He did have the consolation of learning th

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his new book, just released on the same day, was selling like hotcakes.

Crime & Punishment?

What Randal didn't know was that the report up the Intel hierarchy had resulted in criminal charges being filed against him. Oregon has a vague law against "altering" or "transporting" computerized information, with the distinction between the two unclear. The indictment was handed down March 14, 1994. The three felony counts of Computer Crime according to Oregon State Law were:

Count 1: altering without authorization two computer systems.

Counts 2 and 3: accessing a computer with ntent to commit theft.

The first count has to do with the remote mail access. It seems Intel's interpretation was that Randal had "altered" their systems by, for example, putting a .forward file in his login directory to cause his mail to be forwarded elsewhere. The district attorney apparently also wanted to show use of Intel accounts for non-Intel business.

The other two counts have to do with the passwords he discovered on other people's accounts by running crack. What he was accused of stealing (theft) was password files. The DA considered moving a password file between two Intel machines to be at least "transporting." So Randal stood accused of stealing information from Intel, even though even the DA never alleged that anything left Intel's premises.

The case went to a jury trial. Some of the jury members apparently did own computers, but of course anybody who might do anything remotely resembling system administration was rejected. This is evidently common practice these days; a jury of your peers means nobody that does what you do.

Randal was found guilty on all counts, on July 25, 1995. The deciding factor may have been the prosecutor's final summary, in which he made the analogy of letting a carpenter into your house to fix the garage and finding him upstairs rifling your personal papers. Never mind that the analogy is not apt, if for no other reason, because Randal *was* fixing the garage, to the best of his abilities and of his understanding of his job description. The jury didn't know that.

Randal is now a convicted felon, unable to vote, hold public office, serve on a jury, or fulfill government contracts. And he's already spent $112,000 in legal fees, with an expection of a total of $140,000 just for the first trial. All for helping his employer.

On September 11, 1995, he was sentenced on the three counts:

Count 1: Reduced to a misdemeanor with five years probation and ninety days in jail. The jail time is to begin September 1, 1998. Ninety days before that day Randal can petition the court to demonstrate excellent behavior and rehabilitation, and the jail time may be dismissed. Disclosure required (see below).

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Internet *continued...*

Count 2: Two years probation, 480 hours of community service, disclosure required (see below).

Count 3: Two years probation, 480 hours of community service, disclosure required (see below).

The hours of community service count jointly for counts 2 and 3, so the total is 480, not 960.

Disclosure: Randal must not become either a contract employee or employee without any potential employer becoming fully aware of his conviction.

Restitution has still not been set, and a hearing on it is yet to be scheduled. Intel was originally asking for $63,000, and now wants $9000 more.

Why Did This Happen?

Partly, of course, because Randal made mistakes: for example, not keeping both Intel and ORA informed, and trying the account with the deacon password. He readily admits he made mistakes, and has apologized to Intel more than once in public for doing so.

But if Intel thought he had exceeded his authority as a system administrator or had shown poor judgment, they had plenty of recourse available to them by traditional methods: a talk in his supervisor's office; a cut in pay; being summarily fired and walked out the gate. Instead, they brought criminal charges and are still pressing for large sums of retribution even after conviction.

Randal also made mistakes during the legal proceedings. The police did read him his Miranda rights, and he now knows that "you have the right to remain silent" is a very good phrase to consider without speaking. And he made at least one bad mistake during the trial. When asked by the prosecutor whether he had done what he had done for personal gain, he thought about it and considered that helping his employer would make him look good, bring in more consulting, maybe increase his pay, etc., and said (one may well say foolishly), "Yes." The prosecutor, no dummy, brought this up during his summation.

It may be relevant that the prosecutor apparently remarked, in a news conference after the verdict, that it would send a message that Oregon was "safe for business." It may also be relevant that Intel is the largest employer in the state. Not that this case (or the problem it represents, anyway) is specifically about Intel; it could have happened at any largish company or university.

System administrators almost always work in very vague job descriptions, with little or no demarcation of the scope of their activities or when or to whom they should report them. Consultants work under even more vague job descriptions, because they can't even be required to work at specific hours or told when to work on specific tasks or the IRS won't consider them to be consultants. Intel is not alone or even unusual in having no clear usage guidelines about their systems. The risk of the hierar-

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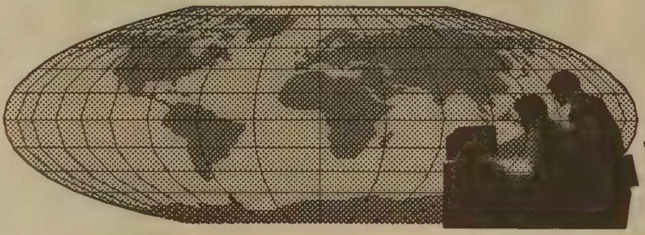

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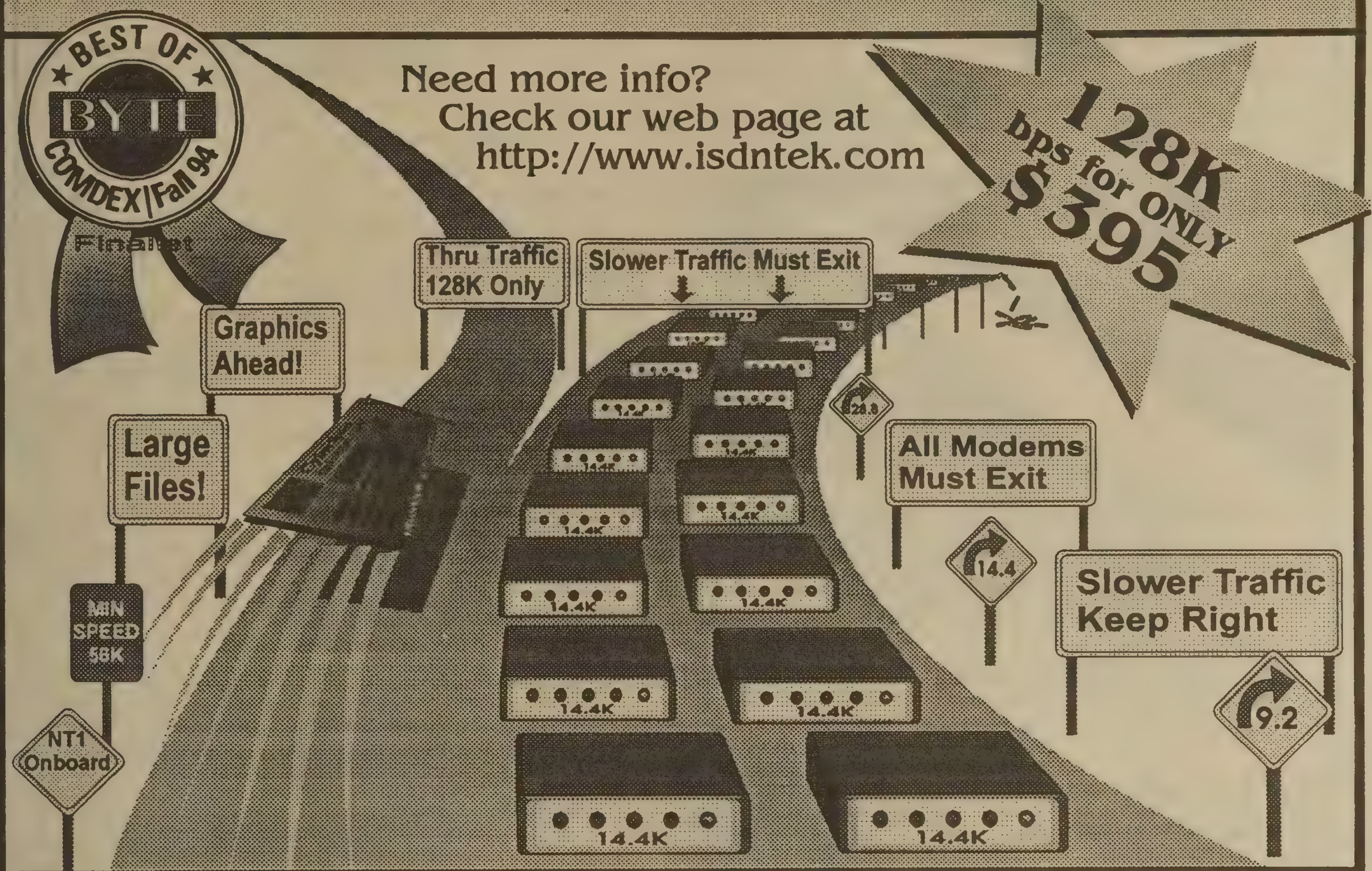

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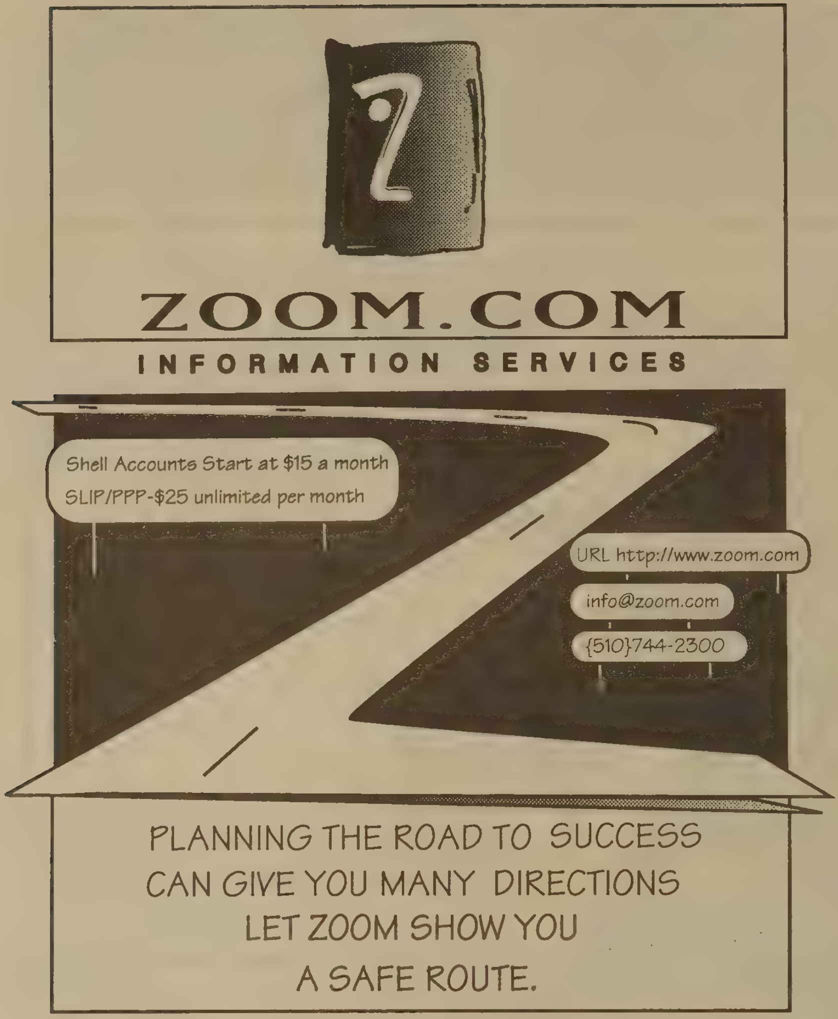
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Internet *continued...*

chy at any large organization getting incensed at some (to them) clerical worker running something called "crack" and finding out that, for example, high-level executives have bad (not to mention embarrassing) passwords, is always with us.

The nature of system administration leads to all sorts of possibilities of civil or criminal charges. If not crack, how about illegal transportation of company property off the premises (taking source listings home to study)? Or illegal use of university communications facilities for political purposes (sending an electronic mail message to your Congress member)? Or illegal export of controlled processes (such as PGP, in the Phil Zimmermann case)?

If you want to keep up to date on this case, send mail to *fund@stonehenge.com* . That electronic mail address goes to an autoresponder which will also send you Randal's short version of the story.

The Rest Of The Story

Much of the above account comes from Randal. We have no reason to doubt that he is telling the truth, but of course there may always be more to the story. Incidentally, we have not yet received input from Intel, but we would be happy to print some when we get it.

If anyone has reports that cast a different light on the matter, do send them in. So far, the worst we've heard has been someone claiming to know that Randal had "broken into at least one system previously." On correspondence with the person who said that, this turned out to be an allusion to Randal running crack on ORA's systems.

Culture Clash?

The system administrator at ORA, Tanya Herlick, was informed by the FBI that someone had allegedly broken into her systems. She was at a system administration conference at the time, and asked the assembled attendees for advice.

"What no one knew at the time was that this was not a typical hacker break-in. It wasn't a break-in at all, in fact. This did not keep me from having a heart attack at the conference, however. I mean, someone comes up to you and says 'The FBI called and said someone hacked your main server.' And you were 2000 miles away and afraid to log on (and definitely not as root)? What would you do?"

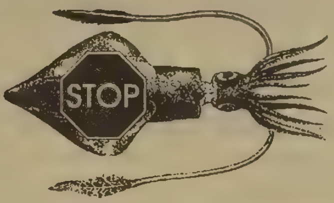
She didn't know that the alleged perpetrator was Randal, which would have been interesting, since he was known to her audience through his books and tutorials and through Usenet and the Internet. She says: "If I had known it was Randal, I possibly wouldn't have even brought it up! Not because Randal is any kind of white knight or anything, but because I knew he had an account on our system, so it couldn't have been a break-in. I found out early the next morning that it was him. I ran into Tim [O'Reilly] after I found out and it turned out that he already knew 'cause Randal had called him."

What she actually did was to disable Randal's account for a couple of days and then reinstate it after talking to him.

Tanya Herlick testified (by telephone) for the defense at the trial, saying that Randal still had his account at ORA and they had no intention of taking any legal action against him. Tim O'Reilly (founder and president of ORA) even spoke up for Randal when asked by the press.

Herlick says: "If Randal had come to me and asked if he could run

When Computer & Network



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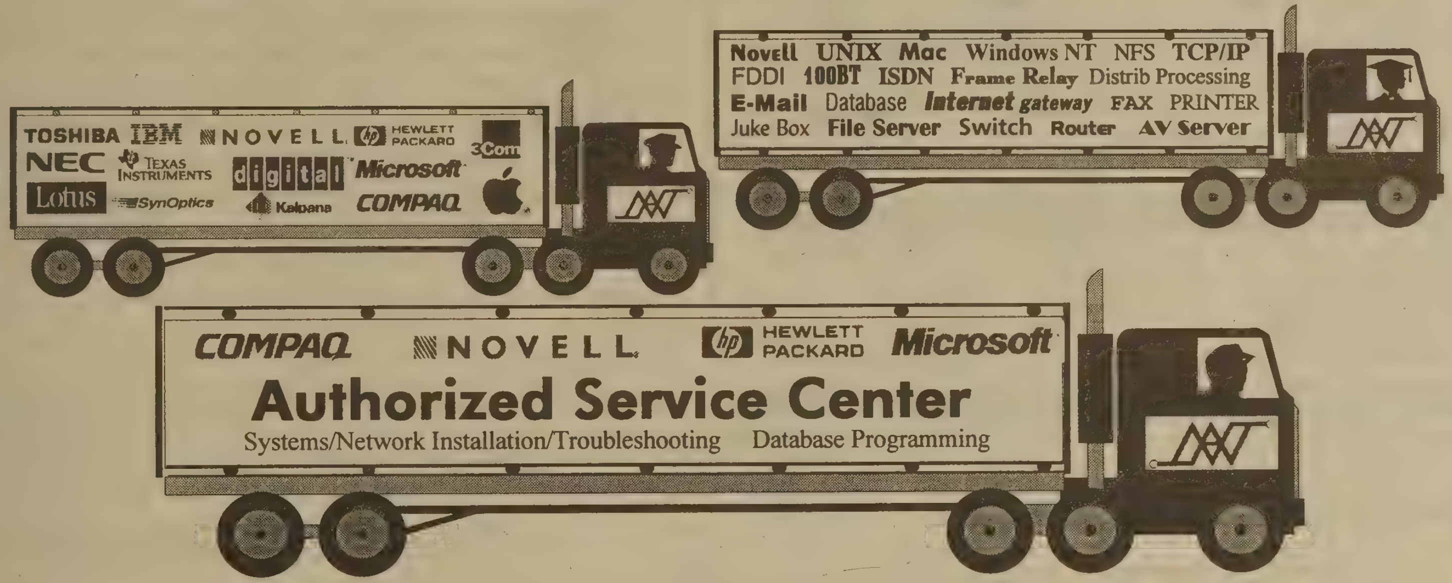
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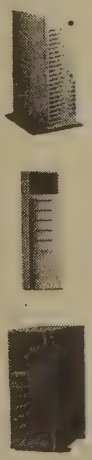
What type of connection/bandwidth do I need?
How do I connect to the local network?
What security protections can I implement?
What is proxy server? Firewall? Security token?
How many calls & how long does it take me to
- Arrange phone company's installation?
- Select the right ISP?
- Apply for the Domain Name?
- Get the right connection setup from ISP?

How many hours or days do I need to install
- Communication hardware?
- Communicaiton software?
- Server driver?
- Client driver?
- Client Application?
- LAN to Internet interface?

Shall I shop all the parts all over the place?
Shall I go see Network Assoicates for a peaceful turnkey service and save all the trouble?



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crack, I would have said no. It was presumptuous of him to think we wouldn't mind. If anything, a system admin should know this better than other users. However, it is not a crime. Just inappropriate. I wish I could have had the chance to say this at the trial, but I didn't."

Yet we still keep hearing that "Randal has quite a rep as a hacker." Those who say that clearly mean the criminal sense of the word, but they never seem to be able to point at any specific activities.

Could it be that once someone is charged with criminal activity, the networked community considers that they must have done something to deserve it? If so, the networked world is much like the rest of the world, indeed. Could it be that Randal's carefully cultivated reputation as a "Perl hacker" is backfiring on him, because so many people think "hacker" means "criminal"? It sure seems likely.

> WE'RE CURRENTLY IN SUCH AN ERA OF FERMENT SURROUNDING COMPUTER NETWORKS, AND PARTICULARLY THE INTERNET, THAT A FEW MISTAKES AND A WORD CAN MAKE YOU A CONVICTED FELON.

Why should you care? Maybe you've never even written a program; you just use computers. But do you post messages by electronic mail or Usenet? If so, you might want to consider the implications of the Communications Decency Act of 1995 (CDA), which we previously described in this column, and which may yet become law. Post one message and you, too, may be facing a hefty fine and jail time for "making available" information that some DA chooses to consider "indecent."

The possibilities are numerous, and aren't limited to system administrators, either. The nature of, oh, library work has become so involved with computers and networks these days that librarians, professors, schoolteachers, or secretaries could be subject to the same difficulties.

Many people are afraid of computer networks because they are strange and new, and they're even more afraid of those who understand computers and networks because that knowledge is power. In both cases the traditional powers that be (the Senate, the Oregon DA) appear to be trying to slap down uppity computer people. And to Senators and prosecutors who don't know how to program a VCR, someone who knows how to send electronic mail may well look like a "hacker."

We're currently in such an era of ferment surrounding computer networks, and particularly the Internet, that a few mistakes and a word can make you a convicted felon. ■

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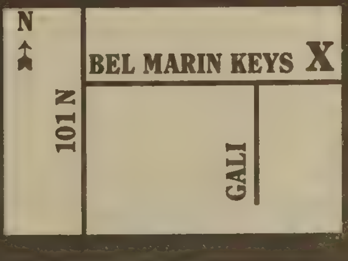

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ONLINE SERVICES • BY BILL GRAM-REEFER

New Kids On The Block

Online Bandwagoneers Provide Alternatives To The Big Guys

"If you build it they will come" is more than a prophetic whisper from *Field of Dreams*. In fact, it has become a powerful mantra of the Information Age, from Ted Turner to Paul Allen.

So if you thought the launch of Microsoft Network would scare off new entries into the increasingly competitive world of online services, forget it. New online services are coming on the scene so fast it appears almost everybody's getting in on the act. So much so that soon the phrase "Go start an online service, pal" will replace derisive vernacular epithets like "Get a life." Here's a quick review, from high-profile to local-guys-make-good.

> IF YOU THOUGHT THE LAUNCH OF MICROSOFT NETWORK WOULD SCARE OFF NEW ENTRIES INTO THE INCREASINGLY COMPETITIVE WORLD OF ONLINE SERVICES, FORGET IT. NEW ONLINE SERVICES ARE COMING ON THE SCENE SO FAST IT APPEARS ALMOST EVERYBODY'S GETTING IN ON THE ACT.

AT&T Business Network

AT&T's New Media Services Unit recently launched the AT&T Business Network, to be hosted on the telecommunications giant's Interchange Online Network. Gearing its product to individuals who run emerging or home-based businesses, as well as entrepreneurs, managers, consultants, and other professionals, AT&T hopes to provide flexible, desktop-based information services and tools that offer a competitive edge in business, including easy access to the Internet. Using a "next-generation" publishing platform that can easily host a wide collection of information services from independent publishers, the Business Network plans to present information in both industry and professional/functional views. So no matter where users are in the service, they'll find links to the information they need. Better yet, many World Wide Web links to information sources outside the service will be embedded within the service to supplement the content.

Already lined up are: *Business Travel News*, Cowles Business and New Media, Dun & Bradstreet, *Entrepreneur Magazine*, Guerrilla Marketing, The Investext Group, Kiplinger Washington Editors, *Nightly Business Report*, Thomas Publishing, TRW, and Weather Services Corp., to name just a sampling. Subscribers will be able to check company information, credit reports, scan the latest state regulations, and learn about new technology and other "smart" ways to spend your money.

AT&T Business Network will cost about $40 per month for ten hours of connect time, plus $2.95 per additional hour. You captains of industry who sign on prior to the end of the year can cop special pricing of just $24.95 per month through 2Q '96. The monthly fee includes integrated links to the Internet, Netscape Navigator software, and electronic mail services.

AT&T Business Network requires the use of a Wintel-based computer operating Windows 3.1 or Win 95 with 4MB or more RAM and 10MB of disk space. VGA display or better is required plus at least a 9.6Kbps modem and Windows-compatible mouse. For more information about AT&T Business Network or to subscribe call 1-800-660-2299.

Pipeline

Meanwhile, Performance Systems International (PSI) offers users affordable, unlimited Internet access with its new Pipeline online Internet service for Windows PCs. This is good synergy for PSI, which is one of the leading providers of Internet access and integration services.

Planning for more than 225 points of presence in major US population centers by year's end, PSI added on the Pipeline software that serves as a kind of BBS front end to the Internet and its many services including email, newsgroups, World Wide Web, FTP, Telnet, and Gopher.

Here's the deal: $20 per month gets you unlimited Internet access at up to a 28.8Kbps connection. No additional hour fees, no daytime vs. nighttime fees; nada. You can also check out the Pipeline for $5 per month for five hours of connect time if you wish.

Either way you get easy-to-use Wintel software (Mac version coming real soon now) sporting a simple graphical user interface that lets you click on where you want to go along the InfoBahn. Additional areas for chat and some conferences were also available when I checked in during the beta testing along with five thousand other users. Since its launch, PSI claims about fifteen thousand users so far.

One caveat. Make sure there is a point of presence in your local calling area. No sense

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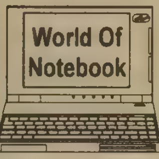

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Intel 486dx2-66 CPU	Intel 486dx4-75 CPU	Intel 486dx4-100 CPU	Intel Pentium 75CPU	Intel Pentium 90/100CPU	Intel Pentium120/130 CPU
256K Cache, 3VLB	256K Cache, 3VLB	256K Cache, 3VLB	256K Cache, 4PCI/4ISA	256K Cache, 4PCI/4ISA	256K Cache, 4PCI/4ISA
0-128 MB RAM	0-128 MB RAM	0-128 MB RAM	0-128MB RAM,2S/1P/1G	0-128MB RAM,2S/1P/1G	0-128MB RAM,2S/1P/1G
VLB IDE Ctl w/2S/1P/1G	VLB IDE Ctl w2S\1P\1G	VLB IDE Ctl w/2S/1P/1G	Enhanced IDE-PCI	Enhanced IDE-PCI	Enhanced IDE-PCI
TEAC 1.44 Floppy Drive	TEAC1.44Floppy Drive	TEAC1.44 Floppy Drive	TEAC1.44 Floppy drive	TEAC1.44 Floppy drive	TEAC1.44 Floppy drive
Mini-Tower Case w/250w	Mini-Tower Case w/250w	Mini-Tower Case w/250w	Mid-tower case w/250w	Mid-tower case w/250w	Mid-tower case w/250w
101 Enhenced Keyboard	101 Enhenced Keyboard	101 Enhenced Keyboard	101 Enhenced Keyboard	101 Enhenced Keyboard	101 Enhenced Keyboard
$309	$279	$319	$479	$589/609	$679/859

1Year Parts,2 years Labor Warranty

High Quality, Full Compatibility And Reliability Are Guaranteed!

MONITORS

9" Paper White VGA Mono	**$119**
NEC XV15/XE15/XV14	$469/$579/$339
NEC XV17/XE17/XP17	$789/$989/$1069
NEC XE21/XP21	$1799/$2159
SONY 15SF/17SF	$489/$879
SONY 17SE/20SE	$1095/$1879
ACER 34T/55	$239/$329

PRINTERS & SCANNERS

HP DeskJet600/660C/850C	$319/419/529
HP DeskJet1200C/PS	$979/1599
HP DeskJet1600C/PS	$1349/1949
HP LaserJet5L/5P/5MP	$549/879/1049
H LaserJet4+/4M+	$1389/1899
HP 4V/4MV(16PPM, 11X17)	$1889/2699
HP LaserJet4si/4siMX	$2875/3999
HP Color LaserJet	$5499
HP Envelope Feeder LaserJet3D/4	**$Call**
Epson 9 Pin Dot Matrix AP2250	$79
HP ScanJetIIIP/IIIC	**$349/939**
HP Accessories	**$Call**
Brother Laser Printer	**$Call**

DRIVES

Conner 540MB 12ms IDE	$179
Conner 850 MB 12MS IDE	$199
Conner 1.08GB 9ms SCSI	$369
Conner 1.2GB IDE	**$269**
WD-31200 1.0GB 10ms IDE	**$299**
WD-2850 850MB 10ms IDE	$199
Maxtor 540MB 12ms IDE	$175
Quantum 540MB 11ms SCSI	$199
Quantum 850MB 12ms IDE	$199
Quantum 1.2GB 12ms IDE	$269
Quantum 1.0GB 10ms SCSI	$349
Quantum 2.1GB 10ms SCSI	$809
Syquest 270 SCSI Int/Ext	$469/539

MULTIMEDIA

NEC 6xi (6X Speed, OEM)	379
SONY 55E/Panasonic 562b	$99/$69
TOSHIBA 3601B/5302B Int	$289/$162
Mitsumi Quad Speed Int IDE	**$159**
SoundBlaster16/MCD/ASP	$75/$85/$99
SoundBlaster16SCSI-2	$109
SoundBlaster AWE32	$239

VIDEO CARDS

Spider Tarantula 2MB VRAM	**$219**
ATI WIN Turbo 64 2MBVLB/PCI	$279
Diamond Stealth Video 2MBVLB/PCI	$279
9GXE64 Pro 4MB VRAM VLB/PCI	$439
Kelvin 64 1MB VLB/PCI	$119
S3 or Cirrus Logic 1MB VLB/PCI	$75
Trident ISA/VLB/PCI 1MB	$65/$75$79

CONTROLLERS

Buslogic PCI-SCSI w/kit	**$219**
Buslogic VLB-SCSI w/kit	**$199**
Adaptec 2842 SCSI VLB w. kit	$239
Adaptec 2940 SCSI PCI w. kit	$219
Adaptec 2940W wide SCSI w.kit	**$299**
Promise DC-4030 IDE VLBw/4HD	$99
IDE-PCI w/2S/1P/1G	$35

TAPE BACKUP

Colorado DJ-35C/25C 350/700MB	$139/$195
Colorado Trakker 350/680MB	$279$339
Colorado PT10 1GB	$599
Conner 4320 RT Interal 2GB	$789

MODEMS

Zoltrix 14400 Fax/Modem Int	$49
Monterey1400 Fax/Modem Ext	$79
US Robotics 14400 Fax/Modem Int	$99
US Robotics 14400 Fax/Modem Ext	$119
Zoom 28800 Fax/Modem Int	**$159**

MEMORY

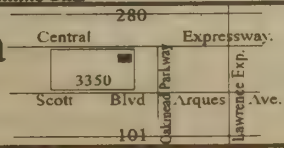
1MB X 9-70ns(3 chips)	$Call
4MB X 9-70ns(3 chips)	$Call
256k X -70ns(3chips)	$Call
1MB X 36-70ns	$Call
2MB X 36-70ns	$Call
4MB X 36-70ns	$Call
8MB X 36-70ns	$Call

MOUSE &KEYBOARDS

Logitech MouseMan (Combo)	$35
Logitech Trackman Portable	$25
Microsoft Mouse serial(w/sys purchased)	$25
Qtronix 2-button serial	$9
Microsoft Natural Keyboard	$89
Monterey 81 Key Mini keyboard	$45

Santa Clara

3350 Scott Blvd.#46
408-986-8288



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Mon-Fri
9AM-6PM
Financing Available

Prices & Specs are subject to change w/o notice
Advertised prices are based on 2% cash discount
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Online Services *continued...*

calling long distance from Concord (510) to San Francisco (415) to get your email, which is what PSI made East Bay WorldLink users do. For more information you can contact PSI at (703)904-4100 (voice), *http://www.psi.net* (Web), or *info@psi.com* (Internet email).

EasyAccess

Then of course, if $20 a month is not your idea of a good time, you'll most certainly want to check out EasyAccess.

Launched in September and based in Sunnyvale, EasyAccess offers local callers full Internet access for free. Based on Excalibur BBS software, EasyAccess offers users graphical client software for Wintel computers that lets you log on to the service and ride the company's ISDN lines to any IP service. Advertiser sponsored, EasyAccess has already brought on San Jose Live, Mirassou Vineyards, The Perfect Swing, the Santa Clara Valley Water District, Wilson's Jewel Bakery, and BASS, the ticket outlet concern.

EasyAccess has the capability to support up to twenty-five thousand 14.4Kbps users a month at 60% capacity. And, like the Frito-Lay commercial, if subscribers use that up, EasyAccess will just add more bandwidth and dial-up lines. A home-grown Mac client is in the works, as are additional advertisers.

Users must first download the client software by either a dial-up modem call to the BBS access point or from the company's Web site. Advertisers are able to display their messages on the dial-up screens, as well as maintain a Web page on the EasyAccess server. Once you log on and make your SLIP connection, you just boot any of your IP-capable software and go: Web, gopher, telnet, IRC, news, mail, etc.

The original idea for EasyAccess had been a local *Yellow Pages*. But as EasyAccess Vice President Jon Simon saw things developing, even $20 is too much for the great numbers of potential Internet users who don't want to spend a cent to get on the Net. Hence the advertiser sponsors and free access. Advertising rates are very affordable at only $Two hundred dollars/month, which gets marketers a splash screen and Web page. Two hundred dollars per year gets you a directory listing only.

More than a "noble adventure," EasyAccess represents a certain business model that could work. Ideally, there should be an EasyAccess in every burgh so local callers can access such a service by using just their flat-rate phone service with Pac Bell. Having local commerce foot the bill makes far more sense than the neo-Commie mentality of sucking down a grant or the levying-a-tax approach taken by the FreeNet, and so-called civic and educational computing movements that—at bottom—simply want someone else to pay for their quasi-governmentally sponsored sinecure.

There are two obstacles to overcome, however. First being a chicken-egg conundrum. Critical to success is designing a system and theme that is attractive to local retailers and

continued on page 286

How to Sell on the Internet without breaking the law!

If you are even thinking of selling your goods or services on the Internet or any other online service, you must comply with federal and state laws that most people do not even know exist.

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Frame Relay Internet Access

75% of new Net sites are commercial systems going online, and Frame Relay access is booming. InterNex Frame Relay is the best way to provide your business with a high-capacity line running 24 hours a day. Our scaleable bandwidth grows along with your business. Can't afford a full T1 (1.544 Mbps) connection? InterNex's "burstable to port speed" technology can give you a "virtual T1" for a fraction of the cost of a full T1.

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Fremont/Milpitas	ParaVision	408.934.7878
Oakland/Berkeley	Internet Marketing Services	510.284.4162
San Mateo/Redwood City	NetTech Systems	415.655.2435
San Francisco	Beta90s	415.974.1188
Fresno	TCS-Global	209.244.0101
Santa Cruz	Call InterNex	
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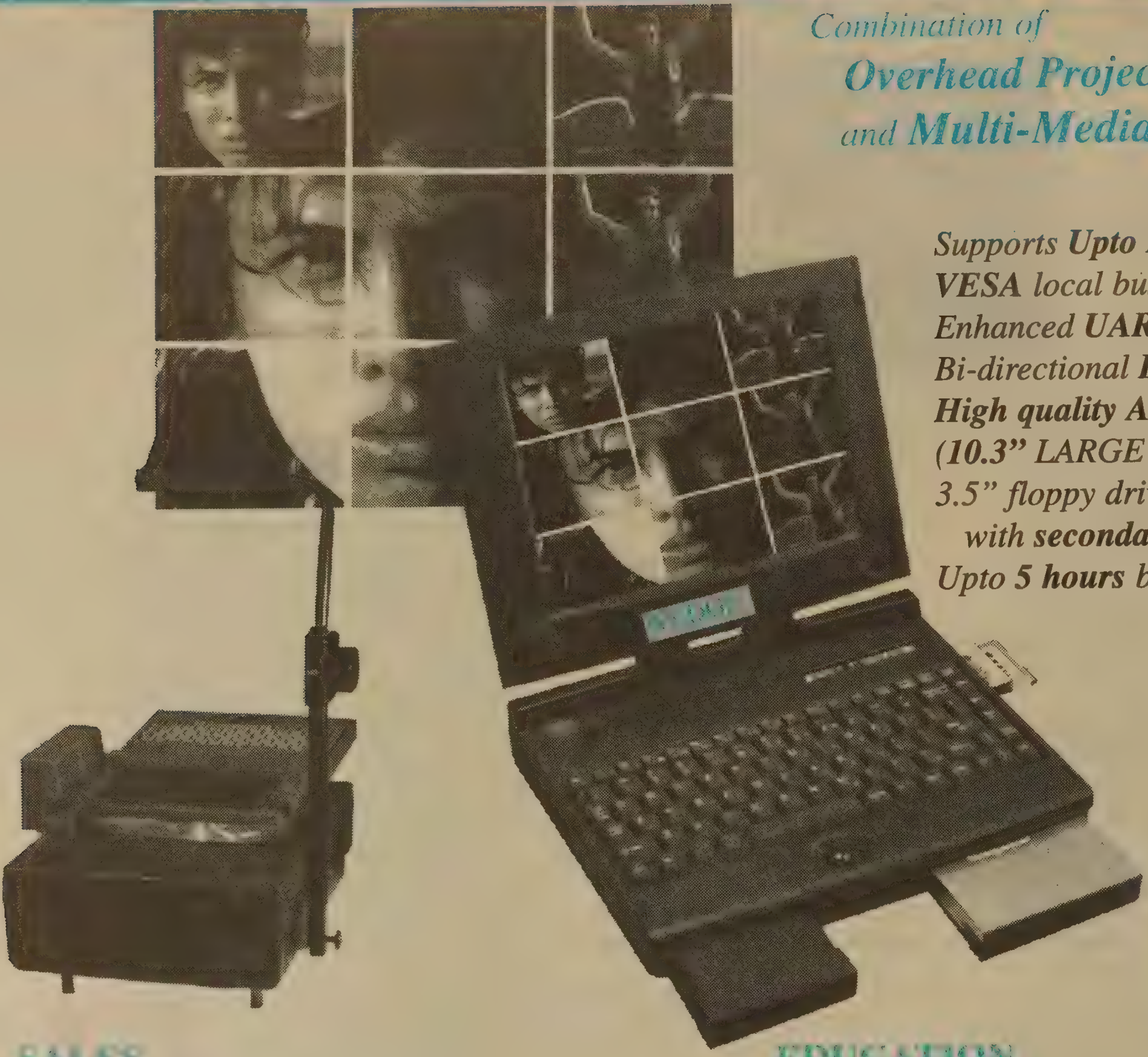
The First Notebook with 6-FOOT screen -- Wedge ShowBIZ



Combination of
Overhead Projection Panel
*and **Multi-Media notebook***

*Supports **Upto DX4-100***
***VESA** local bus design*
*Enhanced **UART 16550***
*Bi-directional **EPP/ECP***
***High quality ACTIVE COLOR** screen*
(10.3" LARGE Dual Scan screen)
*3.5" floppy drive **interchangeable***
with secondary battery pack
*Upto **5 hours** battery life*

US Patent#:
5359550

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Keep your students' attention with **stimulating and animated** lessons

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1.
Unclip the display's protective back panel and open the display to a 180 degree angle

2.
Set the notebook on the overhead projector

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Desktop of the Month: Ready for Windows '95

- 66MHz 486 DX2 Processor
- 4MB RAM Expandable to 128MB on-board
- 540MB Hard Disk Drive
- 1.44MB 3.5" Diskette Drive
- Enhanced Windows Accelerator with 1MB Video
- Enhanced IDE with 16550 UART and EPP/ECP
- Dual Speed CD-ROM
- 14" Super VGA 0.28 Non-Interlaced Monitor
- 16-bit Sound card with MIDI Hi-Fi Synthesizer and Speaker
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- 101 Enhanced Keyboard
- Ergonomic Mouse
- Microsoft DOS 6.22
- Microsoft Windows for Workgroup

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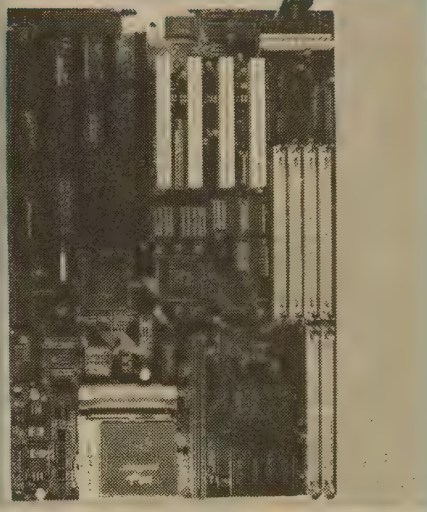

- Intel Pentium 75/90 ... 166/180/ [illegible]
- Supports upto 128MB of RAM
- 6 SIMM 72-pin sockets supports 3.3V & 5V DRAMs
- 256K/512K BURST cache option
- PCI bandwidth [illegible]
- 4 x PCI bus MASTER slots & 5 x ISA slots / 1 shared

ONLY $215.00 with 256K cache

ShowBOOK 4E - 486 Multimedia

- Multimedia 486 Notebook (M[illegible]DS/AC)
- Upgradable CPU (SX/DX/DX2/DX4-100)
- 128Kb Cache and up to 36MB RAM
- TRUE 32-bit VESA Local Bus
- PCMCIA Type IV slot
- Built-in Audio Chip, Mic., & Speaker
- Removable HDD (340, 520, 810MB. 1.3GB)
- Two Hot Swap NiMH Batteries
- Built-in 25mm Trackball with Palm Rest
- UART 16550 serial & Bi-directional EPP/ECP
- Optional Easy Docking Station
- Optional VESA Multi-Media Docking

340MB Hdd	Mono	DS Color
486-66DX2	$1,390	$1,810
486-100DX4	$1,470	$1,890

SPECIAL of the Month: Wedge SunLite Notebook

- 486-33MHz / 25MHz,
- Weighs only 3.9 lbs, 4 Hours Battery Life
- Large Dual Scan Color Display / Mono
- 4MB RAM and 340MB hard drive installed
- Simultaneous LCD/CRT
- Trackball with Palm Rest
- Removable NiMH Battery
- External Floppy Drive and Carrying case
- Serial, Parallel, Kb and Mouse ports

$1,240 - COLOR
$899 - Mono

WT ShowBOOK P5CD - CD-ROM

- Multimedia Pentium Notebook w/ [illegible]
- [illegible]
- 256KB Cache and 8MB up to [illegible]
- PCI Video and Enhanced IDE Controller
- PCMCIA Type III or Two Type II Slots
- Built-in Audio, Mic and Stereo Speakers
- Removable 340, 520, 810MB, [illegible]
- Built-in GlidePoint with Palm Rest
- 2MB VRAM provides 1280x1024x256 colors
- [illegible] Exchangeable for TV Tuner or Video Capture Module
- Fast 16550 Serial, EPP/ECP Parallel Port
- Built-in Joystick and [illegible]
- Wireless IR Interface for [illegible]
- Extended battery life w/ [illegible]
- [illegible] on 11.3" Dual Scan model

340MB Hdd	DS Color	TFT Color
P5-75	$ 2,745	$ 3,150
P5-100	$ 3,015	$ 3,420
P5-133	$ Call $	$ Call $

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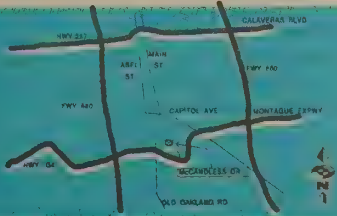

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Online Guide

Web Page Listings

BUSINESS

Accord Services *http://www.weblink.com/accord/* Accord Services offers software to help you think creatively, solve problems, and meet new friends. [Exp. #146.]

Adult CD-ROMs! *http://www.primenet.com/~rdmm/* Free catalog. The hottest adult interactive games and movies available. ROM-Dezvous multimedia. [Exp. #147.]

AdultDex 95 *http://www.a1.com/tpi/index.html* Gateway to adult multimedia industry. Developers, publishers, distributors, and mail order. [Exp. #146.]

Advanced Computer Products *http://www.liberty.com/home/traveller* The home of Advanced Computer Products and the online swapmeet! Also home to ACP Components. [Exp. #145.]

Advanced Logic Research *http://www.alr.com/* ALR manufactures sophisticated multiprocessor network servers, high-performance workstations, and environmentally friendly personal computers. [Exp. #146.]

Agora Digital *http://www.agora.net/* Online service for new and traditional media, including searchable database of industry talent. [Exp. #143.]

Air Brokers International *http://www.aimnet.com/~airbrokr* Visit places around the world, online world travel newsletter, circle the globe, Asia, Pacific. [Exp. #145.]

Aircraft Spruce & Specialty Co. *http://www.aircraftspruce.com* Aircraft Spruce is the premiere distributor of aviation supplies for certificated and home-built aircraft. [Exp. #145.]

Albin Engineering Services, Inc. *http://www.hooked.net/users/aesi/* Albin Engineering Services, a leading placement firm, has several openings for SW Engineers. [Exp. #144.]

Alps Electric *http://www.alpsusa.com/index.html* Photographs and complete specs for the most popular products of this computer peripheral manufacturer. [Exp. #145.]

Amulet Consulting *http://www.amulet.com/mirror/amuletc.com/* Internet and desktop database software development. Home of the HOT database site of the month. [Exp. #147.]

Apartment Locators, Inc. *http://www.homefair.com/apt.aptla.html* Apartment hunting in LA and Orange County areas. [Exp. #144.]

Applied Computer Systems *http://www.apcom. com* ACS sells new and pre-owned Sun equipment. We sell parts as well as complete systems. [Exp. #146.]

Around-The-World Airfares & Adventures *http://www.highadv.com* High Adventure Travel's catalog of discount around-the-world airfares, Himalayan treks, African safaris, etc. [Exp. #143.]

Art Indices, International *http://www.artindices.com* Commercial online gallery of contemporary art and consultation services for corporate and private buyers. [Exp. #145.]

ArtRock Online *http://www.artrock.com/* Online retail catalog and gallery of the world's largest selection of collectable rock and roll music poster memorabilia. [Exp. #146.]

ATK Engines *http://www.atk-engine.com/~atk* Factory remanufactured engines for American, Japanese, and European cars and trucks. Free delivery in the USA. [Exp. #147.]

Barnes & Noble in Costa Mesa *http://www.ni.net/barnes_noble* See what is happening in our store and link up with other Internet book sites. [Exp. #146.]

BayFront Classifieds *http://bayfront.com/* Use our search tool to find the ad items you're interested in. Submit free classified ad. [Exp. #147.]

Bender Zahn Tigges *http://scamless.com/bzl* Located in Dusseldorf, this German law firm handles clients throughout Europe. [Exp. #146.]

BG Computer *http://www.zoom.com/personal/bobhuang/bg/bgmain.html* [Exp. #146.]

Bilbo Innovations, Inc. *http://www. bilbo.com/tae/bilbo/bilbo.html* Step on it! Computer Control Pedals take the next step in user convenience. [Exp. #147.]

Boyden Dental Practice Home Page *http://www.smiledoc.com/dentist/* Tops for a better smile and links to other dental advisories to keep you informed. [Exp. #147.]

Braxton Indexing's Home Page *http://www.thebeach.com/bus/braxton/* Publisher of indexes in legal, scientific, and research areas. [Exp. #145.]

Buell Motorcycle Company *http://www.buell.com/buell.html* America's newest motorcycle manufacturer was formed in 1993 by Erik Buell, a former Harley-Davidson, Inc. engineer and ex-national class road racer. [Exp. #146.]

CADALYST Magazine *http://www.advanstar.com/cadalyst* Providing valuable information to visitors interested in the AutoCAD industry—includes current and classic issues of the magazine. [Exp. #146.]

Cadkey Developer's Network *http://www.cadkey.com* Makes available the Software Development Kit to Cadkey's Strategic Development Partners. [Exp. #145.]

California Computer Expo '95 *http://www.qualcomm.com/users/gnash/cce.html* Largest consumer computer show on West Coast. August 17–20, San Diego Convention Center. 1-800-573-3247. [Exp. #143.]

CARS—Cyberspace Auto Related Swapmeet *http://www.carsnet.com/* Find all kinds of vehicles for sale, everything from uniques to antiques. A video page offers over eighty of the Wildest Racing Motorsports tapes available. [Exp. #147.]

CD Source *http://www.cdsourceline.com/cds* CD-ROM resource center, bookstore, software store, news, and reference site. Includes reviews, articles, and tips. [Exp. #146.]

CD SourceLine *http://www/cdsourceline.com/cds/* A CD-ROM technology resource center to learn about, evaluate, sample, and shop for CD-ROM titles and books. [Exp. #147.]

Center For Electronic Art *http://www.cea.edu/* Discover the Artists' Exhibition and access up-to-the-minute information about classes, schedules, events. [Exp. #145.]

ChiPants *http://www.aonet.com/chipants/* ChiPants, the comfortable and intelligent pants for men and women, are now available on the World Wide Web. You can also email requests and questions to *chi@nbn.com*. [Exp. #145.]

ClickPic Scanning Service *http://www.netventure.com/cpc/* Scanning service offering fast, high-quality, photo and document scanning with email return of images. [Exp. #146.]

Coldwell Banker *http://www.RWF2000.com/barry.html* Real Estate broker for SF Peninsula area specializing in homes and small investment properties. Also specializing in church owned properties in four county area. [Exp. #147.]

Compuforms Co. *http://www.cpfc.com/compuforms* Electronic forms, continuous forms, labels, checks, and downloadable artwork. [Exp. #144.]

Computer Training Consultants *http://www.he.tdl.com/~msri/CTC1.html* Provides in-house, online, and on-site software and hardware training in PC and Mac LAN environments. [Exp. #146.]

Computer Training Network *http://www.crctraining.com/ctn/* CRN lists computer instructor and training companies by category, product, and region. Help for companies to upgrade emplyees' skills. [Exp. #147.]

Copyright Clearance Center *http://www.directory.net/copyright* Offers an automated process for obtaining and paying for reprint rights. [Exp. #143.]

Credi-Call *http://branch.com:1080/cc/cc.htm* Use your credit card as discount calling card. Up to 90% savings on long distance. [Exp. #143.]

CyberLawyer *http://cyberlawyer.com/advice/* An Internet legal service that provides quality online legal advice from licensed attorneys for a modest fee. One query is just $24.95. [Exp. #147.]

CyberNautix, Inc. *http://www.community.net/~nautix/* UNIX and Internet technical services firm. System management, training, and custom services described. [Exp. #143.]

Cyboutique *http://www.romantasy.com* A unique, interactive crossroads for exploring issues, ideas, and products to enhance sexual well-being and encourage intimacy. [Exp. #145.]

Darwin Open Systems *http://www.uunet.ca/darwinsys/* UNIX training and consulting. OPEN LOOK and XView CD-ROM contains source for library, many programs in source, and compiles for Minux and SunOS. [Exp. #147.]

DeltaPoint, Inc. *http://www.deltapoint.com/* Data/Process visualization software publisher—download a free image cataloger and graphic utility. (Mac/Win) [Exp. #146.]

Demand Systems Home Page *http://www.fishnet.net/~drumbra* Demand Systems sells computer software and hardware. They also carry the Jaguar and Lynx. [Exp. #146.]

DHL Worldwide Express *http://www.dhl.com/* Provides information on shipping services offered by DHL for all of the 217 countries that the DHL network serves. [Exp. #146.]

Digital Conversion Technology *http://navishow.ans.net/lab/m/mtownes* Sales, bids, quotations, and proposals. We search and deliver—you produce and sell. [Exp. #146.]

Digital Zone *http://www2.uplex.net/dzone/* Resource for buyers to contact vendors in the printing, advertising, service bureaus, and photography business. [Exp. #145.]

The Earth's Best World Wide Web Site *http://www.earthsbest.com/* The Web site for Earth's Best, the nation's only organic baby food, includes information about the company and products as well as articles on parenting, infant health and nutrition, environmental issues, and organic agriculture. [Exp. #146.]

eCesys, Inc. *http://www.alaska.net/~ecesys* Low-cost Pentium Systems optimized for NEXTstep, Win 95, and WinNT deployment. [Exp. #146.]

Echelon LonWorks Technology *http://www.lonworks.echelon.com/* Lon-

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- ⇒ **Adaptec 2940W Fast/Wide** Controller
- ⇒ **Seagate ST31230W 1GB 9ms WSCSI** HD
- ⇒ **ATI Proturbo 64 w/2MB VRAM**
- ⇒ ExView **15" Monitor .28dpi LR** **1280x1024 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ **MS Mouse**/Keytronic 101 Keyboard
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- ⇒ **TRITON Chipset**, 256K Cache
- ⇒ **16MB** RAM **-60ns** 72PIN SIMMS
- ⇒ **Adaptec 2940W Fast/Wide** Controller
- ⇒ **Seagate ST31230W 1GB 9ms WSCSI** HD
- ⇒ **ATI Proturbo 64 w/2MB VRAM**
- ⇒ ExView **15"** Monitor **.28dpi** (17" at .26dpi) **1280x1024 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ **MS Mouse**/Keytronic 101 Keyboard
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

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Pentium® 100 chip	$ 2,599
Pentium® 120 chip	$ 2,699
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- ⇒ **Intel Zappa** PCI Motherboard
- ⇒ **TRITON Chipset**, 256K Cache
- ⇒ **8MB** RAM **-60ns** 72PIN SIMMS
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- ⇒ **ATI Proturbo 64 or Diamond Stealth 64 Graphics Accelerator** w/**2MB VRAM**
- ⇒ ExView **15"** Monitor **.28dpi** (17" at .26dpi) **1280x1024 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ **MS Mouse**/Keytronic 101 Keyboard
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

Pentium® 75 chip	$ 1,799
Pentium® 90 chip	$ 1,859
Pentium® 100 chip	$ 1,899
Pentium® 120 chip	$ 1,999
Pentium® 133 chip	$ 2,199

ICS P5-Hendrix

- ⇒ **Intel Hendrix** PCI Motherboard
- ⇒ **Mercury Chipset**, 256K Cache
- ⇒ **8MB** RAM **-60ns** 72PIN SIMMS
- ⇒ **Western Digital 850MB 10ms Hard Disk**
- ⇒ **64BIT SVGA Accelerator w/2MB** DRAM
- ⇒ ExView **14"** Monitor **.28dpi** **1024x768 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ **MS Mouse**/Keytronic 101 Keyboard
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

Pentium® 60 chip	$ 1,499
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1.2GB 10ms HD	$ 90
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ICS P5 - Server

- ⇒ **SuperMicro** PCI Motherboard
- ⇒ **TRITON Chipset**, 256K/512K **Synch** Cache
- ⇒ **32MB** 60NS 72PIN **EDO** RAM
- ⇒ **Adaptec 3940W Dual-Ch. Fast/WidePCI**
- ⇒ **Seagate ST15150W 4.3GB 8ms WSCSI** HD
- ⇒ TEAC 1.44 Floppy,
- ⇒ Full Tower Case w/300W
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- ⇒ ATI Mach 32 w/1**MB DRAM**
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- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ **MS Mouse**/Keytronic 101 Keyboard
- ⇒ 2 PCI IDE, 2 FDD, 2 16550 I/O, 1 EPP

486DX2/66	$ 949
486DX2/80	$ 959
486DX4/100	$ 1049
15" ExView Monitor	$ 100
8MB 60ns RAM	$ 145
16MB 60ns RAM	$ 410

ICS 486 VLB

- ⇒ **486 VLB GREEN MOTHERBOARD**
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- ⇒ 4MB RAM - 60ns 72PIN SIMMS
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- ⇒ ExView **14"** Monitor **.28dpi** **1024X768 @60hz NI Digital Control**
- ⇒ TEAC 1.44 Floppy, Med Tower Case
- ⇒ **MS Mouse**/Keytronic 101 Keyboard

486DX2/66	$ 859
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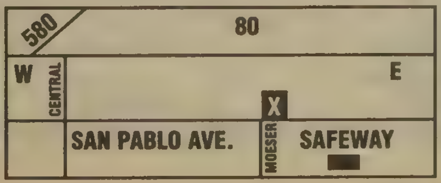

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Online Guide

Web Page Listings *continued...*

Works offers networking technology for building, home, industrial, and transportation automation. [Exp. #146.]

EIO: Electronics Information Online *http://www.eio.com/* A super surplus store. We buy and sell excess, discontinued, new, and used electronic components and computers. [Exp. #146.]

EZ Systems *http://register.com/drives* Tape and optical disk drives for sale or repair. Most major brands supported. [Exp. #146.]

Fast Forward Skate Shop *http://www.fast-forward.com/* Largest distributor of inline skates and accessories. Online guide to buying inline skates. [Exp. #145.]

Fisher Model And Pattern Works *http://www.wco.com/~fisher* Resin model kits of classic '50s and '60s racing cars. [Exp. #146.]

Flor De Manila Cigars *http://www.netins.net/showcase/fujicig/flordemanila.html* The most popular Cuban seeded Philippine hand made cigars available. Blended with a satisfying character with a hint of the exotic. [Exp. #146.]

Fogo e Paixao *http://www.earthlink.net/~fogo/* Brazilian introduction and matching agency online. [Exp. #147.]

Furnituremaker And Design *http://www.channel1.com/users/postma* Steve Postma Furnituremaker and Design specializing in custom veneer and curved furniture. [Exp. #144.]

Galt Technology Shareware Zone *http://www.galt-tech.com/* The leading site for quickly and easily downloading the latest shareware from the Web. [Exp. #145.]

Genoa Technology's Web Site *http://www.gentech.com* Testing solutions for printer emulations, facsimile (T.30), IrDA (Serian Infrared), IEEE 1284, and SNMP. [Exp. #146.]

Geoworks Home Page *http://www.geoworks.com* Information about Geoworks, a supplier of operating system software and applications for the emerging consumer computing device market. [Exp. #145.]

Gold Mountain Land *http://www.aimnet.com/~ayl/antelope.htm* Land investment opportunities with prices starting at 30¢ per square foot. [Exp. #145.]

Golden Sun Co. *http://www.clcr.com/goldensun/* Sunglasses for wholesalers and retailers. Offering thousands of models of sunglasses for the lowest price. [Exp. #146.]

Graphics Development International, Inc. *http://gdisoft.com/* GDI gives you tools to scan, design, edit, fill, merge, and print all your forms. [Exp. #147.]

Great Fax Cover Sheet Co. *http://emporium.turnpike.net/W/wortB/welcome.html* Unique products at great prices. Something for everyone even if you don't fax. [Exp. #146.]

Greek Hotel And Cruise Reservation Center *http://www.deltanet.com/bazaar/greece.htm* Your link to over eight thousand Greek hotels and cruises covering the Greece mainland and islands. [Exp. #146.]

Homes For Sale On The Internet *http://www.he.net/~bsonder/homes.html* Have some real estate to sell? Want to increase your audience? Advertise with Homes for Sale on the Internet. [Exp. #146.]

Hotel Emeraude Plage *http://www.well.com/user/frigate* Information on the Hotel Emeraude Plage on St. Bart's in the French West Indies. [Exp. #145.]

iambic Software *http://www.iambic.com/iambic* Software for the Newton MessagePad. Contests, tips, and links to other Newton-related areas. [Exp. #145.]

Immigration And Visas *http://www.schulzlaw.com/~mschulz* Law offices of C. Matthew Schulz. Information on US visas and employment-based immigration. [Exp. #144.]

Information Broker *http://infobrkr.com/IB/DTP.htm* Affordable desktop publishing via B/W printed material and the Web. [Exp. #146.]

Instant $avings BBS *http://www.liberty.com:80/home/couponbbs/Welcome.html* A free BBS soon to have free Internet email and a home-based business opportunity. [Exp. #146.]

Instant Wholesale Pricing For 170,000 Computer Products *http://www.applied-computer.com/* Applied Computer of San Jose lets users instantly access pricing information on over 170,000 computer products. [Exp. #146.]

International Channel Networks *http://www.i-channel.com/* The premier provider of multilanguage television programming, featuring over twenty-four different languages. [Exp. #146.]

International Consulting *http://www.insist.com/* Build a strong distribution/OEM channel in Europe. Fluent in German, French, and Dutch. Set up branch offices in four weeks. [Exp. #146.]

Investigative Resources *http://www.lainet.com/~factfind* The online brochure of Investigative Resources International, a full service southern California investigative agency. [Exp. #145.]

Jeffe & Soeder *http://www.jeffe-soeder.com/* A marketing communications firm specializing in high-technology companies. See our online consultation. [Exp. #147.]

Kamaaina's Best *http://planet-hawaii.com/kambest/* Gift baskets filled with Hawaiian treats like passion fruit butter, taro pancake mix, coffees, teas, and more. [Exp. #146.]

Kaua'i Exotix *http://planet-hawaii.com/~exotix/* A small tropical flower business in Kaua'i doing all of our business via the Internet. [Exp. #144.]

LinkStor Home Page *http://www.linkstor.com* PC network and storage reseller in Silicon Valley. [Exp. #143.]

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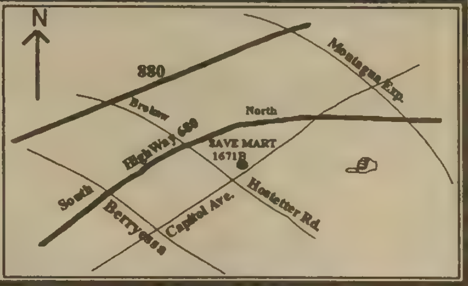

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Intel Endeavor P5-90/256K Pipelined PCI	530
Intel Endeavor P5-75/256K Pipelined PCI	492
Intel Endeavor P5-133/256K PCI	793
Intel Endeavor P5-120/256K PCI	628
Intel Endeavor P5-100/256K PCI	568
Intel Endeavor P5-90/256K PCI	495
Intel Endeavor P5-75/256K PCI	457
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Intel ZappaTriton P5-120/256K PCI	558
Intel ZappaTriton P5-100/256K PCI	497
Intel ZappaTriton P5-90/256K PCI	425
Intel ZappaTriton P5-75/256K PCI	381
Intel Triton P5-133/256K PCI	678
Intel Triton P5-120/256K PCI	513
Intel Triton P5-100/256K PCI	453
Intel Triton P5-90/256K PCI	380
Intel Triton P5-75/256K PCI	342
SIS PENTIUM-66/256K PCI	240
SIS PENTIUM-60/256K PCI	210
486DX4-100/256K VLB AMD (3v & 5v)	180
486DX2-80/256K VLB AMD (3v & 5v)	135
486DX2-66/256K VLB AMD (3v & 5v)	130
486DX4-100/256K VLB INTEL (3v & 5v)	180
486DX2-66/256K VLB INTEL (3v & 5v)	177
486DX-33/256K VLB INTEL (3v & 5v)	120

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Intel Endeavor P5-90/256K Pipelined PCI	1,541
Intel Endeavor P5-75/256K Pipelined PCI	1,503
Intel Endeavor P5-133/256K PCI	1,804
Intel Endeavor P5-120/256K PCI	1,639
Intel Endeavor P5-100/256K PCI	1,579
Intel Endeavor P5-90/256K PCI	1,506
Intel Endeavor P5-75/256K PCI	1,468
Intel Zappa Triton P5-133/256K PCI	1,799
Intel Zappa Triton P5-120/256K PCI	1,634
Intel Zappa Triton P5-100/256K PCI	1,574
Intel Zappa Triton P5-90/256K PCI	1,501
Intel Zappa Triton P5-75/256K PCI	1,463
Intel Triton PENTIUM 133/256K PCI	1,754
Intel Triton PENTIUM 120/256K PCI	1,589
Intel Triton PENTIUM 100/256K PCI	1,529
Intel Triton PENTIUM 90/256K PCI	1,456
Intel Triton PENTIUM 75/256K PCI	1,418
SIS PENTIUM 66/256K PCI	1,316
SIS PENTIUM 60/256K PCI	1,286
486DX4-100/256K VLB AMD	1,256
486DX2-80/256K VLB AMD	1,211
486DX2-66/256K VLB AMD	1,206
486DX4-100/256K VLB INTEL	1,266
486DX2-66/256K VLB INTEL	1,256
486DX-33/256 VLB INTEL	1,196

SYSTEM CONFIGURATION

- * MotherBoard w/256 KCache
- * 8 MB RAM installed
- * 1.44 Floopy Drive
- * 540 MB Fast IDE Hard Drive
- * EIDE VLB w/I/O (PCI for Pentium)
- * Cirrus Logic SVGA VLB w/ 1MB
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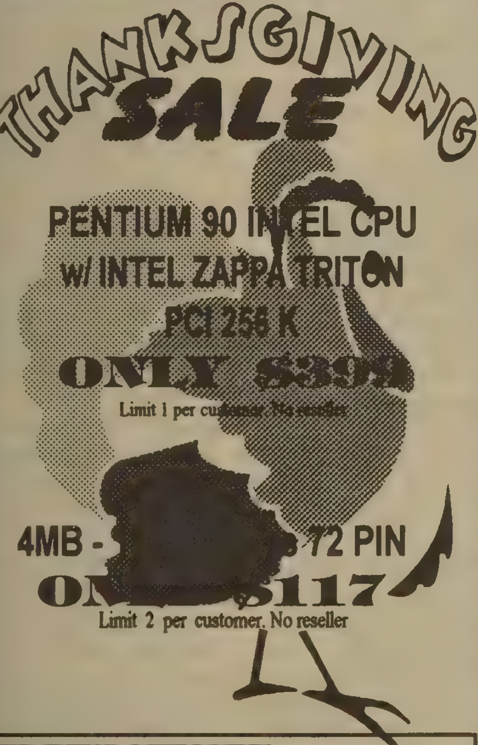

PENTIUM 90 INTEL CPU
W/ INTEL ZAPPA TRITON
PCI 256 K
ONLY $399

Limit 1 per customer. No reseller

4MB - [illegible] 72 PIN
ON[illegible] $117

Limit 2 per customer. No reseller

VGA

SVGA CirrusLogic VLB w/1MB/2MB	70/120
ATI	
Mach 32 PCI 1MB DRAM	95
Mach 32 PCI 2MB VRAM	245
ATI WinTurbo VLB/PCI w 4MB VRAM	395/400
SPIDER	
Spider Lynx 64 PCI 1MB/2MB	75/120
Spider 32 VLB 1MB/2MB	78/125
Spider 256 VLB 1MB/2MB	75/125
Tarantula Lite(S3) PCI w/ 1MB/2MB	80/130
Tarantula 64 PCI 1MB/2MB VRAM	160/225
Tarantula 64 VLB or PCI 4MB VRAM	330
DIAMOND	
Stealth 64 Graphics 2001 PCI w/1MB	115
Stealth 64 PCI 1M/2M DRAM	115/160
Stealth 64 PCI 2M/4M VRAM	240/390
Memory Upgrade	call

CONTROLLERS

IDE w/I/O - EIDE VLB - IDE PCI	10/15/26
EIDE VLB w/ I/O 16550	24
NCR - SCSI PCI w/Wide SCSI	89
Adaptec SCSI 1522/1542	79/165
Adaptec SCSI 2842 VLB	190
Adaptec SCSI 2940 PCI	190
Adaptec 3940 MultiChannel SCSI PCI	290
Adaptec 3940W MultiChannel SCSI PCI	330

HARD DRIVERS

FUJITSU 540 MB IDE/ 1.0 GB IDE	150/225
FUJITSU 1.0 GB SCSI	290
MAXTOR 540 MB/850 MB	165/190
MAXTOR 1.2GB IDE	250
CONNER 810 /850IDE	175/190
CONNER 1.2 GB IDE	250
CONNER 540MB/1GB SCSI	190/350
QUANTUM 540 / 1GB MB SCSI	190/350
WESTERN DIGITAL 540/850	180/200
WESTERN DIGITAL 1.2 GB IDE	275
SEAGATE 2.0 GB SCSI II	759

72 PINS MEMORY

2 MB 80 ns 72 PIN(512Kx32)	$60
4 MB 70ns 72 PIN (1x32)	125
4 MB 70ns 72 PIN (1x36)	129
8 MB 70ns 72 PIN (2x32)	245
8 MB 70ns 72 PIN (2x36)	265
16 MB 70ns 72 PIN (4x32)/(4x36)	470/519
32 MB 70ns 72 PIN (8x32)	990

30 PINS MEMORY

1 MB 70ns 30 PIN (1x9)	30
4 MB 70ns 30 PIN (4x9)	135

MULTIMEDIA

Sound Blaster Compatible 16 bit	45
SoundBlaster 16 IDE Vibra Creative Lab	69
SoundBlaster 16 MCD with ASP	89
Sound Blaster 16 SCSI II	115
SONY CD-ROM /IDE Double Speed	70
PANASONIC CD-ROM Double Speed	65
PANASONIC Quad Speed IDE CD-ROM	135
MISUMI Quad Speed IDE CD-ROM	135
TOSHIBA 4X SPEED IDE 5302B	140
TOSHIBA 4.4X SPEED SCSI II 120 ms 3601B	290
NEC SCSI-2 CD-ROM Quad Speed kit	220
4X KIT: Mitsumi 4x CD-ROM + Sound Blaster 16 Vibra IDE + Speakers + 11 CD titles (Grolier Encyclopedia, Robo Cop 3 ...)	250

KEYBOARDS

Mitsumi / Keytronic	13/24
Focus 2001	35

MISCELLANEOUS

Fax/Modem 14400 / 28800	50/120
Zotriz 14400 Fax/Modem w/ Voice	60
US ROBOTICS Fax/Modem 14400	99
US ROBOTICS Fax/Modem 28800	230
Mini Tower Case w/LED 230 Watt P.S	34
Desktop AT case w/230 Watt P.S	40
Medium Tower Case w/ LED 230 Watt P.S	58
Full Tower Case w/LED 250 Watt P.S	74
Microsoft Mouse Serial (w/ system)	25
Logitech Mouse Serial	20
1.44 /1.2 Floppy Drive	30/35
TEAC 1.2/1.44 Combo Drive	89
Any CD-ROM Audio Cable to SBlaster	5
CPU Cooling Fan 486/P5-90	5/8
80 Watt / 100 Watt Speakers	40/50

TERMS AND CONDITIONS

1- One year parts & labor on all complete system.
2- Not responsible for type errors.
3- Price and availability subject to change w/o notice.
4- 15% Restocking fee on returns
5- All special-ordered items are non-refundable.

BENTEK 486 SYSTEM

- * MotherBoard VLB w/256K Cache+CPU
- * Free CPU Cooling Fan
- * 4MB RAM installed
- * 1.44 Floopy Drive
- * 540 MB IDE HD
- * IDE Controler w/ 2HD/2FD/2S/1P/1G
- * Spider 256 VesaLBus 16.7 Million color
- * Impression 14" SVGA .28 NI Monitor
- * Mini Tower Case w/230W P.S.
- * 101 Mitsumi keyboard
- * Microsoft Compatible Mouse w/ Pad

486DX4-100/256K VLB INTEL	835
486DX2-66/256K VLB INTEL	834
486DX-33/256K VLB INTEL	760
486DX4-100/256K VLB AMD	820
486DX2-80/256K VLB AMD	785
486DX2-66/256K VLB AMD	780

BENTEK PENTIUM SYSTEM

- * Intel Triton MB PCIw/256K Cache
- * Intel Pentium CPU
- * 8MB RAM installed 72 pin
- * 1.44 Floopy Drive
- * 540 MB IDE HD
- * IDE PCI w/ I/O 16550 controller
- * Spider Tarantula Lite PCI video(S3) 1M
- * 14" SVGA .28 Color Non-IN Monitor
- * Mini Tower Case w/230W P.S.
- * 101 keyboard + Mouse w/ Pad

Intel Pentium 133MHz	$1478
Intel Pentium 120MHz	$1313
Intel Pentium 100MHz	$1253
Intel Pentium 90MHz	$1180
Intel Pentium 75MHz	$1142

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10MB of Utilities Storage & 20MB of FTP Storage
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- 56K to T1 line service
- Slip Accounts
- PPP Accounts
- Telnet Shell
- 28.8 V.34 Kbps
- Free 10 Day Trial Offer
- WWW, FTP, Gopher, Email & News
- Personal Web site
- Commercial Web site setup & development
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PREMIUM PENTIUM® SYSTEMS	
Pentium®75/256K PCI (Intel Zappa)	$1,512
Pentium®90/256K PCI (Intel Zappa)	$1,617
Pentium®100/2556K PCI (Intel Zappa)	$1,627
Pentium®120/256K PCI (Intel Endeavor)	$1,797
Pentium®133/256K PCI (Intel Endeavor)	$2,030

SYSTEM CONFIGURATION
- Intel Pentium® Processor with fan
- 8MB RAM
- 1.2GB Fast IDE Hard Drive
- 1.44MB 3.5" Floppy Drive
- 15" SVGA NI .28 Color Monitor
- Diamond Stealth 64 PCI with 2MB
- 101 Keyboard • 3-Button Serial Mouse
- Medium Tower Case with PS

HEWLETT PACKARD	
HP 1600C	$1249
HP 1600CM	$1784
HP DESK JET 600	$289
HP DESK JET 660C	$289
HP DESK JET 1200CPS	$1449
HP DESK JET 1200	$929
HP DESK JET J2550A	$289
HP LASER JET 4V	$1815
HP LASER JET 4SI	$2799
HP LASER JET 5L	$499
HP LASER JET 3P	$828
HP LASER JET 5MP	$979
HP DESK JET 850C	$499
HP 500SH TRAY 4+	$299
HP DUPLEX OPTI	$419
HP 1600 CM	$1779
HP LASER JET 4+	$1339
HP LASER JET 4MV	$2629
HP LASER JET 4SIM	$3899
HP COLOR LASER	$5499
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Hrs: 9am-6pm Mon-Fri; 10am-12noon Sat

TERMS & CONDITIONS
1. One year parts & lifetime labor warranty on systems.
2. Prices reflect cash discount.
3. Prices and availability subject to change with notice.
4. Shipping, insurance and COD charges are extra and non-refundable.
5. Return shipping must be insured, prepaid and bearing our RMA number on the shipping label.
6. Defective items replaced or repaired at our discretion
7. Not responsible for typographical errors.
8. All returns subject to 20% restocking fee.
9. Corporate, Gov., and educational Purchase Orders are welcome and subject to approval.
10. No surcharge for checks.

Online Guide

Web Page Listings *continued...*

LucasArts *http://www.lucasarts.com* The Web site for LucasArts Entertainment, developer and publisher of interactive entertainment and educational software. [Exp. #145.]

Luxcom, Home for Isochronous Networking *http://www.luxcom.com/* Provides Isochronous networking for isoEthernet, Ethernet, and Token Ring. [Exp. #147.]

Maxsoft-Ocron, Inc. *http://www.maxsoft-ocron.com* Maxsoft-Ocron, a leader in OCR software and toolkits. Visit us and download Wordlinx free. [Exp. #146.]

Mind Logic *http://www.xmission.com/~wwwads/mind/logic.html* CD-ROM disks, hardware, and video gear at wholesale and retail prices. Worldwide mail order. Freebies too! [Exp. #145.]

Mind Science Research Institute, Inc. *http://www.he.tdl.com/~msri* Delivers management and technology training for the lifelong learner. [Exp. #145.]

Miniman *http://www.mindifarm.com/midiman* Midiman's Web site consists of over twelve pages of product and company information, and an ftp site for files. [Exp. #146.]

Mobile Access *http://www.aimnet.com/~ayl/900.htm* Learn all about investing in the lucrative 900 telephone business and what it has to offer you. [Exp. #145.]

Mole-Richardson *http://www.mole.com* Hollywood lighting manufacturer, rental company, expendables store, movie memorabilia store [Exp. #145.]

Music Boulevard *http://www.musicblvd.com* A one-stop service where customers can listen to 30-second sound samples, view album art or artist photos, read reviews or biographies, and buy from an extensive music catalog. [Exp. #146.]

Mutual Fund Investing Home Page *http://www.ManhattanLINK.com/* Features weekly mutual fund rankings and trading system results. Also, online newsletter and links to other mutual fund research sites. [Exp. #146.]

Natural World *http://tlm.tlm.net/natwld.html* Natural World makes 100% non-toxic, all-natural, chemical-free products for cleaning, infant care, nutrition, and pet care. [Exp. #143.]

NetCity *http://www.netcity.com/* An electronic metropolis offering online shopping, personal and professional services, auto center, farmer's market, and entertainment. [Exp. #145.]

The Network Buyer's Guide *http://www.sresearch.com/* Created by Strategic Research Corp., this site is a central source for network and system administrators to gather information on storage and networking. [Exp. #147.]

Newer Technology *http://www.newertech.com/* Supplier of Mac peripherals and memory products. Grouped into four categories: acceleration, connectivity, memory, and PowerBook accessories. [Exp. #146.]

Nicolet: Instruments Of Discovery *http://www.nicolet.com/* A manufacturer of analytical instruments. Products include Fourier transform infrared and Roman spectrometers, microscopes, sampling accessories, and spectroscopy software. [Exp. #147.]

Novell Service & Support *http://www.aimnet.com/~yungi/lansol.html* Novell network specialists—CNE. We offer Novell-authorized network installation, service, and support. [Exp. #143.]

NTI Of California *http://www.net101.com/nti/* Performance, quality, and value with California's premiere long distance service for businesses and residents. [Exp. #145.]

NutriGenie *http://pages.prodigy.com/CA/nutrigenie/* Nutrition software for better health. Winner of Home PC Top 100 Products of the Year Award. [Exp. #146.]

O'Keefe World *http://www.okeefe.com* O'Keefe World is a full-service advertising agency. Bandwidth busting graphics. Idiotic image maps. All style, no substance. [Exp. #146.]

Online Islamic Bookstore *http://www.sharaaz.com* Finest books, videos, audios, software, and CD-ROMs on Islam. View descriptions, book reviews, screen captures, and book covers. [Exp. #145.]

Pacific International *http://www.pacintl.com/pacintl/* Specializing in Japanese/English internationalization (bid or contract). We are multiplatform capable. [Exp. #146.]

PC Physician *http://www.earthlink.net/~pcphysician/* For repairs and installation of PC hardware and software. For rates, info, and more, look here. [Exp. #146.]

The PC4 Zennet Home Page *http://www.zennet. com/* Come find out about T. Pascal and Associates and their wonderful hardware solutions. [Exp. #146.]

PCTravel *http://www.pctravel.com* or *http://www.nando.net/pctravel.html* Real-time online air reservation and ticketing service with encryption and free overnight delivery of tickets. [Exp. #143.]

The People's Place On The Web *http://www.People-Place.com* Your place for health, natural resources, personal and professional growth, nutrition, fitness, and fun. [Exp. #146.]

Photo Restoration, Retouching & Scanning Service *http://www.wp.com/PhotoRestoration* Highest quality and lowest prices for digital photo restorations. Quick turnaround, too. [Exp. #145.]

The Probe *http://www.theprobe.com/* Business to business network publication. Great offers on products and services. [Exp. #147.]

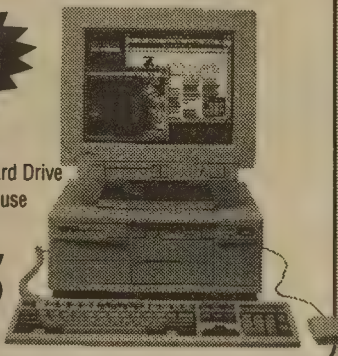
Rational Data Systems *http://www.rds.com* Just the basics so far, including employment and WWW contracting opportunities. Fancier stuff to follow. [Exp. #144.]

Recortec, Inc.'s Business Center *http://www.indus-*

Bring Home Name Brand Quality Today!

AST Bravo LC

Name brand quality at close pricing!



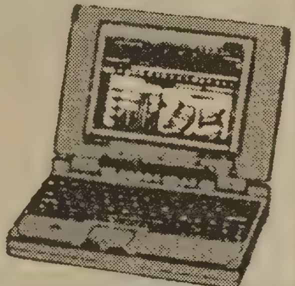
- Pentium 75MHz
- 8MB RAM/540MB Hard Drive
- DOS, Windows & Mouse

$1295

(Monitor not included)

Epson ActionNote Color 660C

- 486DX2/66MHz
- 8MB RAM
- 340MB Hard Drive
- 10.4" DSTN Color
- Trackball PCMCIA
- 1.44 Floppy



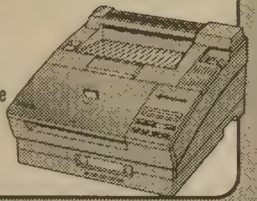
$1399

Limited to stock on hand

Epson Action Laser™ 1400

The best value in True 600 Laser Printing

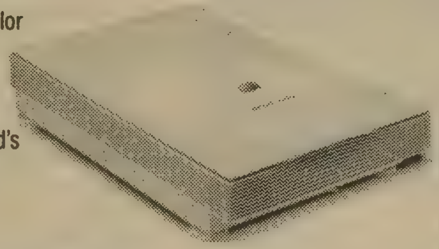
- 600 dpi printing with Edge Smoothing Technology
- 5PCL 5e Compatible
- 2MB Memory with Image Compression Technology
- Printer Control Panel Software for Windows and DOS
- 45 Scalable Fonts, 10 TrueType Compatible



$399

HP ScanJet 3C Scanner

- High quality scanning in B/W or color with 600dpi optical resolution
- Greater shadow detail with 30-bit color internal scanning
- Service and support from the world's leading scanning manufacturer

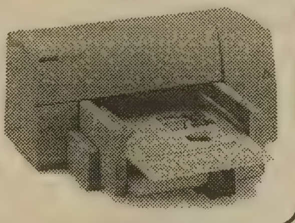


$899

HP DeskJet 660C/ DeskWriter 660C Printers

These printers offer several improved ink formulas, performance, media versatility, simplified design, and software enhancements.

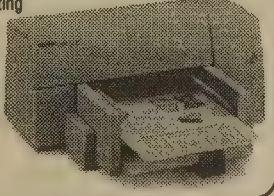
- Crisp, clear black printing at 600dpi plus HP's RET
- Spectacular color at up to 600x300dpi with HP ColorSmart technology
- Printing in a hurry-up to 4ppm in black and 1ppm in color
- Faster, easier printing in Windows
- Hassle-free printing on envelopes, labels and cards
- Simple setup and installation
- Industry-leading three year warranty
- Quiet operation



Your choice **$379**

HP DeskJet 600/ DeskWriter 600 Printers

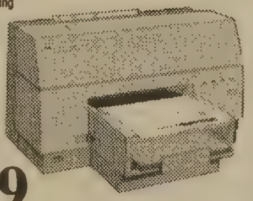
- New Inks for sharper, blacker blacks
- Up to 4 PPM in EconFast Mode
- 600 dpi Plus Resolution Enhancement Technology for clear crisp printing



Your Choice **$289**

HP DeskJet 1600C/ 1600CM Printers

- Professional 600x600dpi black with RET
- Brilliant 300x300dpi color
- Fast, efficient 4ppm color and 9ppm black printing
- Built-in heater for dry, ready-to-go output
- Wide variety of paper types and sizes, and optional 500-sheet paper tray
- Enhanced HP PCL 5 with Color language for HP LaserJet printer compatibility
- Sharable and expandable, with options that support networked use (1600C only)
- Sharable, expandable and network-ready with Adobe™ Postscript™ software (1600CM only)

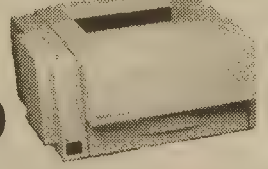


$1299/1899

HP LaserJet 5L-FS Printer

NEW!

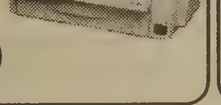
- True 600x600 dpi laser printing
- Lots of font choices
- 4 pages per minute and a 20MHz processor
- Reliable, expandable, shareable, versatile, value-packed printing



$499

HP LaserJet 5P/5MP Printers

- True 600x600 dpi laser printing
- Lots of fonts choices
- Two paper sources, 3"x 5" to legal sizes, wrinkle-free labels, envelopes and card stock
- 6 pages per minute and a 20MHz processor
- Reliable, expandable, shareable, versatile, value-packed printing

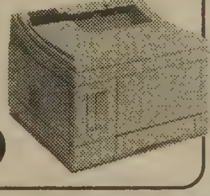


$849/989

HP LaserJet 4 Plus/ 4M Plus Printers

The best print quality in the industry

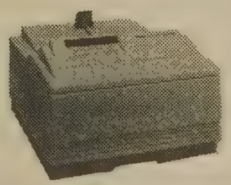
- True 600 dpi print quality for clear, crisp text and graphics
- Resolution Enhancement Technology and microfine toner for superior output quality
- 12 pages per minute printing for Macintosh and mixed PC environments true 600dpi output
- Adobe™ Postscript™ level 2 and enhanced HP PCL 5 printer languages
- Easy to set and use



$1365/1849

HP LaserJet 4V/4MV Printers

- HP's fastest desktop printer
- Crisp 600x600 dpi print quality
- 16-ppm engine speed
- 33MHz RISC processor with I/O buffering for unparalleled performance
- Handles a wide range of paper sizes including 11x17



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Pentium® PCI Multimedia Computer Systems w/256K Cache

- 8 MB RAM
- Teac 1.2 MB 3.5" Floppy Drive
- 540 MB IDE Hard Drive
- 2 Serial, 1 Parallel Ports
- 14" SVGA Monitor .28dp NI
- PCI VGA Card w/1 MB
- 101 Keyboard
- Mini Tower Case
- Serial Mouse w/Pad
- Quad Speed CD-ROM
- 16-Bit Sound Card
- Stereo Speakers

intel inside

P75 MHz	CALL
P90 MHz	CALL
P100 MHz	CALL
P120 MHz	CALL
P133 MHz	CALL

486 Multimedia System w/256K

- 8 MB RAM
- Serial Mouse w/Pad
- Teac 1.44 MB 3.5" Floppy Drive
- 4X Speed CD-ROM Drive
- 420 MB IDE Hard Drive
- 16 Bit Sound Card
- Local Bus IDE Controller
- Stereo Speakers
- 14" SVGA Monitor .28dp NI
- Local Bus Video Card w/1 MB
- 101 Keyboard
- Mini Tower Case

intel inside

DX2-66 MHz	CALL
DX4-100 MHz	CALL

NOVELL NETWARE

v3.12 or 4.1 5&50 USER

5 User	$450
50 User	1755

NETWORK SPECIAL

Lanpro PCMCIA Adapter Combo	$108
Lanpro 16-Bit Combo Ethernet Card	25
Lanpro 9-Port 10BT Ethernet Hub	139
Cnet 15-Port 10BT Ethernet Hub	269
12-Port 10BT Master SNMP Hub	595

sun microsystems MASTER Netra RESELLER

Netra Internet Server

Netra i4 • Netra i5
Netra i20

The complete Internet solution

MOTHERBOARD w/CPU

*486DX2-66/256K (Intel)	$79 + $97
*486DX2-66/256K (AMD)	79 + 48
*486DX2-66/256K (Cyrix)	79 + 41
*486DX2-80/256K (AMD)	79 + 52
*486DX2-80/256K (Cyrix)	79 + 50
*486DX4-100/256K (Intel)	79 + 149
*486DX4-100/256K (AMD)	79 + 89
*486DX4-100/256K (Cyrix)	79 + 78
IBM Blue Lightning VLB-75/256K/IDE I/O	149
IBM SLC-2/64K/128K	125/138
*Zappa (Triton Chipset) P75/90	388/485
*Zappa (Triton Chipset) P100/120 256K	498/598
*Endeavor w/Creative Chip EIDE I/O 256K-90	575
*Endeavor w/Creative Chip EIDE I/O 256K-100	588
*Endeavor w/Creative Chip EIDE I/O 256K-120	688
*Endeavor w/Creative Chip EIDE I/O 256K-133	870
*Triton Pentium 100/256K	469
*Pentium 100/256K	435

CD-ROM DRIVES

*Teac CD 6X (900KB/s) IDE	$265
Toshiba 3601B SCSI-II 4X CD-ROM	298
Toshiba 5301C SCSI-II CD-ROM	220
Teac CD-55A 4X CD-ROM	135
Mitsumi FX-400 4X IDE CD-ROM	145
Panasonic CR-562/563 2X AT Bus CD-ROM	58
Interface Card	12

SOUND CARDS

Sound Blaster IDE (Vibra)	$69
Sound Blaster 16 w/Panasonic CD-ROM CR562/563	120
Sound/16/Acer	38

CASES

Minitower/PS/FCC/UL	$36
Baby ST/PS/FCC/UL	52
Mid-Tower/PS/FCC/UL	55
Full Tower/PS/FCC/UL	88
Acer Super Mini Tower PS/FCC/UL	65

Ad reflects cash discount. • Prices subject to change w/o notice. • Not responsible for typographic errors. • Pentium® is a registered trademark of Intel Corp.

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WEB PAGE: http://www.gvnet.com
Hours: M-F 9-6:30

Internet Literacy Consultants

We help people understand and use the Internet and related technologies to accomplish their goals.

ILC Consulting Services: Our services take the form of support and planning for individual or corporate Internet access and presence. Our references include Global Village, LucasArts, Macworld Online, and Whole Earth Catalog. We will "get you on the Internet", show you what you can do there, and teach you how to do it!

ILC Seminars: Low-cost, high-quality Internet seminars for beginners, the curious, and active users.

Internet 101: An Introduction and Overview for Beginners and the Curious.

Internet 202: Searching the Internet! A how-to class for users with graphic or text-based accts.

Internet 303: A hands-on Introduction to HTML Authoring. Please call for reservations.

For dates, times, and details call:
(415) 469-8271 or e-mail info@matisse.net

Online Guide

Web Page Listings *continued...*

try.net/recortec Industrial rack mount computers, enclosures, keyboards, monitors, and printers. Web site includes descriptions and datasheets. [Exp. #146.]

Regent Press *http://www.sirius.com/~regent* A printer in Berkeley and publisher of *The Oracle* (Facsimile Edition) and *The Fringe Series.* [Exp. #144.]

Robert Lee Entertainment (RLE) *http://www.rle.com/~rle/index.htm* RLE is an independent film, video, and WWW page production company. [Exp. #144.]

Ross and Associates, Inc. *http://Miamirealestate.com/ross/* Miami and South Florida residential and commercial listings for anyone wishing to buy, sell, rent, or lease. [Exp. #147.]

Safeware, The Insurance Agency, Inc. *http://www.safeware-ins.com/* Insures computers against theft, fires, power surges, accidents, natural disasters, and earthquakes. Review details and apply. [Exp. #146.]

Secret Staircase Bookshop *http://www.secret-staircasebooks.com/* An independent bookshop specializing in children's books and mysteries for adults. [Exp. #146.]

Secrets Of Home Theater And High Fidelity *http://www.sdinfo.com/* Electronic magazine on home theater and high fidelity with reviews of equipment, feature articles, press releases, etc. [Exp. #145.]

Sextant *http://mind.net/wsirota/sextant/sextant.htm/* Distribution site for Sextant, shareware program that presents an environment for editing and using Netscape Navigator's bookmarks. [Exp. #145.]

Shamrock Base Corp. *http://wavenet.com:80/~shamy/* Offering base materials used in road construction and a downtown, L.A. concrete/asphalt dump site. [Exp. #146.]

Solomon Software *http://www.solomon.com/* Solomon's home page offers a single point of communications to resources within Solomon Software, a leading accounting software developer. [Exp. #145.]

Solutions Seminars *http://www.sol-sems.com* Seminars for technical communications specialists in the development of technical information products, marketing materials, technical training materials. [Exp. #145.]

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StarComp *http://www.leonardo.net/starcomp/* Virtual Showbiz Software store—scripting writing, production scheduling, budgeting, and plot assistance. [Exp. #146.]

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Swim At Home In An Endless Pool *http://www.endlesspools.com/~swim/* Swim or exercise "in place" against a smooth current adjustable to any speed or ability. The Endless Pool is only 8' by 15'. [Exp. #146.]

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continued on page 302

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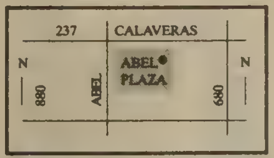

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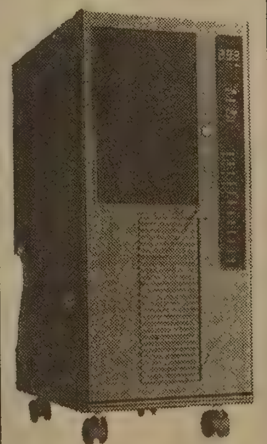

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* 2.1 GB SCSI HARD DRIVE CONNER CFP2107S	$ 703
* 2.1 GB SCSI HARD DRIVE CONNER CFP2105S	$ 703
* CONNER 2.1 GB WIDE SCSI HDD CFP2107E	$ 550
* 2.1 GB SCSI HDD QUANTUM XP-32150S ATLAS	$ 845
2.1GB SCSI HDD QUANTUM 32210CP-S CAPELLA	$ 643
2.1GB SCSI HAWK ST32430 9MS SEAGATE	$ 740
* 2.1GB SCSI HDD SEAGATE 32550W WIDE	$ 872
2.5GB SCSI BARA ST32550N 8MS SEAGATE	$ 836
SEAGATE 3.1GB SCSI 43400N	$1,744
4.0GB SCSI HDD CFP4207S CONNER 7200/8.5	$ 927
* 4.0GB SCSI HDD MICROPOLIS MIC3243	$1,134
4.2 GB HDD QUANTUM GRAND PRIX 4301S 8.6M	$ 981
* 4.2 GB SCSI HDD QUANTUM GP4301SW WIDE	$1,079
4.2GB SCSI BARA ST15150N 8MS SEAGATE	$1,271
4.2GB SCSI HAWK ST15230N 9MS SEAGATE	$ 977
* 4.2 GB SCSI HARD DRIVE SEAGATE 15150NW	$1,288
(WSL) 540 MB SCSI HDD QUANTUM LIGHTENING	$ 179
730 MB SCSI HDD QUANTUM LIGHTENING	$ 166
* 9 GB SCSI HARD DRIVE MICOPOLIS 1991	$1,962
* 9 GB WIDE SCSI HDD MICROPOLIS 1991W	$2,178
* 9.1GB SCSI ELITE ST410800N 10MS SEAGATE	$1,998

MOUNTING BRACKETS

MOUNTING BRACKET FOR HARD DRIVES	$ 3
MOUNTING BRACKET FOR BARRACUDA DRIVES	$ 8

HARD FLOPPY CONTROLLERS

* ADAPTEC AVA 1505 SCSI-2 CD-ROM KIT	$ 51
ADAPTEC 1522 ISA SCSI CARD	$ 71
ADAPTEC 1522 ISA SCSI KIT	$ 133
ADAPTEC 1542 ISA SCSI CARD	$ 170
ADAPTEC 1542 ISA SCSI KIT	$ 244
* ADAPTEC 2742 EISA SCSI CARD	$ 286

MOTHERBOARDS

386 MB'S

3/486 MustangO VLB MOTHERBOARD 128k	$ 78
386 MustangO ISA 40MHZ 64/128K M/B W/CPU	$ 88

486 MB'S

486DX MustangB ISA 256K CACHE M/B	$ 78
* 486 AIR 8EISA/3VLB DX4 MB 512K M/B	$ 308
486BL3-75 IBM BLUE LIGHTNING VLB M/B	$ 151
486 ASUS SP3 PCI/VLB IDE IO 256K M/B	$ 146
486 BIOTECH PCI/ISA IDE FAST IO M/B	$ 105
486 ASUS SP3GN PCI SCSI IDE IO M/B	$ 235
486 MustangES PCI SIS 256K M/B	$ 101
486 MustangEO PCI VLB ISA OPTI M/B	$ 118
486SLC-33 Mustang MOTHERBOARD W/CPU	$ 49
486SX MustangB 33MHz ISA W/CPU 0K M/B	$ 90
486 MustangS DX2 3VLB 256K MB SIS	$ 84
486 MustangQ DX4 VLB 256K SIS	$ 95
* 486 PONY DX4 VLB WRITEBACK 256K	$ 76
486 MustangQ DX4 VLB 256K MB OPTI	$ 92

586 MB'S

* 586 CapricornNX NEXGEN 90 MHZ VLB	$ 246
* 586 CapricornNX NEXGEN 90 MHZ PCI	$ 302

PENTIUM MB'S

PENTIUM TRITON OEM PCI 256K IDE IO	$ 170
* PENTIUM DUAL ASUS 75-100 MHz PCI/EISA MB	$ 594
* PENTIUM DUAL ASUS 75-100 MHz PCI/ISA MB	$ 338
PENT DUAL TYAN <=133,512K-ASY,5EISA,4PCI	$ 497
* PENT DUAL TYAN <=133,256K-SYNC,5EISA4PCI	$ 549
PENTIUM TYAN <=133 EISA/PCI 512K S1452	$ 431
PENTIUM Intel PCI ISA 60/66 W/VGA IDE IO	$ 220
* PENTIUM ASUS PCI/ISA P55TP4XE 256K BURST	$ 330
* PENTIUM ASUS PCI/ISA P55TP4 256K STND	$ 218
BURST CACHE PIPE FOR PENTIUM M/Bs 256K	$ 90
PENTIUM INTEL ZAPPA 256K ASY CACHE, IDEIO	$ 220
PENTIUM Intel ENDEAVOR 0K (NO) CACHE	$ 245
PENT Intel ENDEAVOR 256K BURST PIPELINE	$ 335
* PENTIUM SuperMic(US) TRITON 180 MHZ M/B	$ 252
* PENTIUM TYAN 1466 TRITON 256K BURST	$ 235
* PENTIUM TYAN 1461 TRITON 512K STANDARD	$ 224

ACCESSORIES

BATTERY FOR MOTHERBOARD CMOS	$ 10
* CACHE UPGRADE FROM 256K TO 512K	$ 50
CABLE SET FOR MOTHERBOARDS	$ 9

MULTI MEDIA

QUICKSHOT JOYSTICK FOR COMPUTER GAMES	$ 12
COMPUTER MICROPHONE	$ 5
PRO AUDIO 16 BASIC	$ 58
SOUND BLASTER 16 VALUE EDITION	$ 93
SOUNDBLASTER 16 W/PAN INT OEM	$ 75
SOUNDBLASTER 16 IDE VIBRA OEM	$ 72
* SOUNDBLASTER 32 VALUE EDITION OEM	$ 148
SOUNDBLASTER ASP CHIP	$ 52
* SOUNDBLASTER AWE 32	$ 270
SOUND BLASTER PRO VALUE EDITION	$ 53
* SOUND BLASTER SCSI-2 16 OEM	$ 132
SPEAKERS LABTEC LCS 150 NEW VERSION	$ 18
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SPEAKERS Z	$ 5

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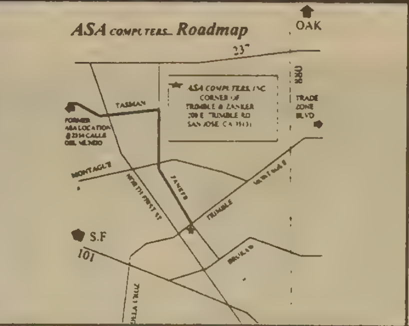

TERMS AND CONDITIONS

COD, FOB San Jose, CA. Prices subject to change without notice.

Resellers, Corporations and Schools Volume Discounts available

For pick-up orders please allow min of 2 hours for preparation.

All parts are covered by Manufacturer's Warranty; Systems come with system level labor warranty of three years from ASA. Please refer to the ASA Catalog for a full listing of the Terms and Conditions. Due to the complexity of this AD, please excuse for Typographical Errors.

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CD-ROM DRIVES

* CD-ROM CADDY	$ 6
CONTROLLER CARD FOR PAN/TEAC	$ 9
EXT/1HH CASE, SCSI-1 CBL, TERM, ASSEMBLY	$ 78
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NEC 512 6X SCSI CD-ROM INTERNAL	$ 320
* NEC 512 6X SCSI CD-ROM EXTERNAL RETAIL	$ 580
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PANASONIC 4X SCSI CD-ROM 504S	$ 256
* SANYO 4X SCSI CD-ROM	$ 147
TEAC 4X CD-ROM (NEEDS INT CARD $8)	$ 119
* TEAC 6X CD-56E IDE CD-ROM	$ 244
* TEXEL PLEXTOR 4X SCSI 43CH CD-ROM INT	$ 299
* TEXEL PLEXTOR 6X SCSI CD-ROM INTERNAL	$ 491
TOSHIBA 4X SCSI 3601B CD-ROM	$ 271
TOSHIBA 5302B 4X IDE CD-ROM INTERNAL	$ 150

COMMUNICATIONS

FAX/MODEMS

FAX/MODEM US ROBOTICS 14400 EXTERNAL	$ 108
* FAX/MODEM US ROBOTICS 14400 EXTERNAL MAC	$ 115
FAX/MODEM US ROBOTICS 14400SI EXTERNAL	$ 86
FAX/MODEM US ROBOTICS 14400 INTERNAL	$ 93
FAX/MODEM US ROBOTICS 14400SI INTERNAL	$ 64
FAX/MODEM US ROBOTICS 28800 EXTERNAL	$ 199
FAX/MODEM US ROBOTICS 28800 INTERNAL	$ 180
FAX/MODEM VOICE US ROBOTICS 28800 EXTRNL	$ 228
FAX/MODEM VOICE US ROBOTICS 28800 INTRNL	$ 209
FAX/MODEM HAYES ACCURA 28800 EXTERNAL	$ 216
FAX/MODEM HAYES ACCURA 28800 INTERNAL	$ 185
* FAX/MODEM HAYES OPTIMA 28800 EXTERNAL	$ 433
* FAX/MODEM HAYES OPTIMA 28800 INTERNAL	$ 367
FAX/MODEM ZOLTRIX OR GEN 14400 EXTERNAL	$ 64
FAX/MODEM ZOLTRIX OR GEN 14400 INTERNAL	$ 39
FAX/MODEM VOICE ZOLTRIX OR GEN 14400 INT	$ 50
FAX/MODEM ZOLTRIX OR GEN 144/28800 EXT	$ 133
FAX/MODEM ZOLTRIX OR GEN 144/28800 INT	$ 115
FAX/MODEM 96/24 INTERNAL ZOLTRIX	$ 34
FAX/MODEM MODEM 2400 BAUD SENDFAX 9600	$ 14

MULTI-PORT COMM CARDS

* MULTIPORT DIGI 16EM EISA/ISA DB25/RJ45	$ 911
* MULTIPORT DIGI 16EM UPGRADE DG25/RJ45	$ 535
* MULTIPORT DIGI 32EM EISA/ISA DB25/RJ45	$1,374
* MULTIPORT DIGI 8EM ISA DB9/RJ45	$ 667
* MULTIPORT DIGI XEM POWER SUPPLY 120V	$ 28
* PCL 711B PC MULTILAB CARD BY ADVANTECH	$ 183
* PCL 848B COMMUNICATION CARD BY ADVANTECH	$ 278

PCMCIA COMM CARDS

* PCMCIA FAX/MODEM MEGAHERTZ 144 XJ2144	$ 175
* PCMCIA FAX/MODEM MEGAHERTZ 288 XJ22288	$ 286
* PCMCIA ENET/MOD XIRCOM 10BT/144 TYPE II	$ 367
* PCMCIA ENET/MOD XIRCOM 10BT/288 TYPE II	$ 498

ROUTER CARDS

* ROUTER: ADTRAN T1/FT1 CSU/DSU #1200060L1	$ 988
* ROUTER: LIVINGSTON IRX 2T1;2-64K;1E	$2,657
* RO: LIVINGSTON PORTMASTR-2E,20PORT,1P1E	$2,876
* RO CABLES FOR SDL 8PORT SERIAL RISCOM/8	$ 51
* RO CABLES FOR SDL RISCOM/N2S & D	$ 55
* ROUTER: SDL 8PORT INTELLIGENT CARD RS232	$ 440
* ROUTER CARD SDL (56K-T1) W/T1-CSU	$1,200
* ROUTER CARD SDL (56K-T1) 2 PORT	$ 750

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SUPER FILE SERVER KS-011 W/DUAL 300W PS	$ 459
SUPER BIG TOWER CASE W/WHEELS W/O PS	$ 109

D.A.T. DRIVES

CONNER

* CONNER ARCHIVE PYTHON DAT 2-4GB 4320RT	$ 802
* CONNER PYTHON 4324RP DAT 4-8GB INT	$ 846
* CONNER PYTHON CP4324RT DAT 2-4 GB INT	$ 744

EXABYTE

* EXABYTE EXB4200 2.0GB DAT	$ 739
* EXABYTE EXB4200C 4-8GB DAT	$ 849
* EXABYTE EXB8205 2.5-5GB DAT INTERNAL	$1,265
* EXABYTE EXB8505XL 10GB DAT EXTERNAL	$2,078
* EXABYTE EXB8505XL 10GB DAT INTERNAL	$1,865
* EXABYTE EXB-8700 14GB 8MM DAT EXTERNAL	$1,996

HEWLETT PACKARD

HP C1533A DAT 4MM 4-8 GB W/O BRACKET	$ 972
* HP C1534A DAT 4MM 2GB W/O BRACKET	$ 712
* HP C1536A DAT 4MM 4GB W/O BRACKET	$ 810
HP C35470 DAT W/O FRAME 2 GB	$ 722
HP C35470 DAT 2 GB EXTERNAL	$ 831
HP C35480 DAT 4-8 GB W/O FRAME	$ 803
HP C35480 DAT 4-8 GB EXTERNAL	$ 919

WANGDAT

* WANGDAT 3100E DAT 2 GB EXTERNAL	$ 946
* WANGDAT 3100 DAT 2 GB INTERNAL	$ 751
* WANGDAT 3200E DAT 2-4 GB EXTERNAL	$1,037
* WANGDAT 3200 DAT 2-4 GB INTERNAL	$ 847
* WANGDAT 3400 DAT 4-8 GB INTERNAL	$ 946

ACCESSORIES

EXT/DAT CASE, SCSI 1-2 CBL, TERM, ASSEMBLY	$ 121
5.25" MOUNTING BRACKET FOR HP DAT DRIVES	$ 29
DAT CARTRIDGE 4 MM 90 METER	$ 5
DAT CARTRIDGE 112 MTR 8 MM	$ 21
DAT CARTRIDGE 4 MM 120 METER	$ 6

MICE

LOGITECH BUS MOUSE BULK	$ 38
* LOGITECH CORDLESS MOUSE	$ 109
LOGITECH MOUSEMAN 3-BUT SERIAL BULK	$ 26
LOGITECH 1ST MOUSE SERIAL BULK	$ 19
AGILER/KEEN MOUSE SERIAL	$ 8
* LOGITECH MOUSEMAN BUS (RETAIL)	$ 79
* LOGITECH MOUSEMAN SERIAL (RETAIL)	$ 53
BLACK MOUSE SERIAL GENERIC	$ 10
MOUSE PADS GENERIC	$ 2
* MICROSOFT BUS MOUSE (RETAIL)	$ 91
MICROSOFT BUS MOUSE BULK	$ 64
* MICROSOFT MOUSE SERIAL (RETAIL)	$ 64
MICROSOFT SERIAL MOUSE BULK	$ 32
MICROSOFT PS/2 MOUSE BULK	$ 34
TRACK BALL DEVICE GENERIC	$ 20
* LOGITECH TRACKMAN SERIAL (RETAIL)	$ 92

FLOPPY DRIVES

2.88 MB FLOPPY DRIVE	$ 87
MOUNTING BRACKET (BLACK) FOR FLOPPY DRIV	$ 8
* HP 5.25" CD-ROM RACK MOUNTING KIT	$ 9
MOUNTING BRACKET WHITE FOR FLOPPY DRIVE	$ 5
TEAC 1.2 MB FLOPPY DRIVE BLACK	$ 44
TEAC 1.2MB FLOPPY DRIVE	$ 42

* ADAPTEC 2842 VLB SCSI CARD	$ 174
* ADAPTEC 2842 VLB SCSI KIT	$ 232
ADAPTEC A2940 PCI SCSI CARD	$ 188
ADAPTEC A2940 PCI SCSI KIT	$ 246
ADAPTEC 2940W PCI SCSI CARD(CBL EX $25)	$ 252
* ADAPTEC 2940W WIDE PCI SCSI KIT	$ 305
* ADAPTEC 3940 PCI SCSI KIT	$ 412
* ADAPTEC 3940W PCI WIDE SCSI KIT	$ 476
* BUSLOGIC KT-410A VLB IDE CACHING KIT	$ 117
* BUSLOGIC BT-445C VLB SCSI CARD	$ 169
* BUSLOGIC KT-445C VLB SCSI KIT	$ 204
* BUSLOGIC BT-545C ISA SCSI CARD	$ 156
* BUSLOGIC KT-545C ISA SCSI KIT	$ 221
* BUSLOGIC BT-747C EISA SCSI CARD	$ 304
* BUSLOGIC KT-747C EISA SCSI KIT	$ 329
* BUSLOGIC KT-910A PCI IDE CACHING KIT	$ 162
BUSLOGIC BT-946C PCI SCSI CARD ONLY	$ 177
BUSLOGIC KT-946C PCI SCSI KIT	$ 242
BUSLOGIC BT-956C PCI WIDE SCSI CARD ONLY	$ 230
* BUSLOGC BT-956CD PCI WIDE DIFF SCSI CARD	$ 366
IDE 2HDD/2FDD W/ 2SPG CARD	$ 11
IDE 2HDD/2FDD W/ 16550 UART 2SPG CARD	$ 18
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TYAN IDE IO W/16550 UARTS	$ 20
NCR 810 CHIPSET PCI SCSI CARD (ASUS)	$ 67
NCR 815 CHIPSET PCI SCSI CARD W/FLASH B	$ 94
* NCR 815 CHIPSET PCI SCSI KIT W/FLASH B	$ 109
PCI IDE IO W/16550 UARTS	$ 34
* PROMISE 200 ISA IDE CACHING CONTROLLER	$ 98
PROMISE 2300 VLB IDE IO W/16550 CONT	$ 47
PROMISE 4030 VLB IDE CACHING CONTROLLER	$ 92
* PROMISE 5030 PCI IDE CACHING CONTROLLER	$ 125
* PROMISE 540 PCI FAST WIDE SCSI CONTROLLR	$ 184
VLB IDE ENHANCED DUAL CHANNEL FAST 2SPG	$ 19
VLB IDE IO 2FDD/2HDD 2S/P	$ 14

KEYBOARDS

101 KEYBOARD BLACK	$ 23
101 KEYBOARD BTC	$ 15
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101 KEYTRONICS + MS SERIAL MOUSE OEM	$ 51
101 KEYBOARD KEYTRONICS SMALL ENTER KEY	$ 25
101 KEYBOARD MITSUMI	$ 13
84 KEYS MINI KEYBOARD BTC-5100	$ 29
101 KEYBOARD MAXI SWITCH	$ 30
101 KEYBOARD MTEK SPILL RESISTANT	$ 13
101 KEYBOARD RUSSIAN	$ 16
101 KEYBOARD SEJIN	$ 15
101 KEYBOARD SI/KME	$ 13
101 KME KEYBOARD + SERIAL MOUSE	$ 19
104 KEY KEYTRONICS WIN 95 KEYBOARD	$ 28
104 KEY MICROSOFT KEYBOARD	$ 81
KEYBOARD ADAPTER	$ 4
KEYBOARD EXTENSION CORD	$ 4
KEYBOARD FOCUS 2001	$ 34
* FOCUS 8000 KEYBOARD W/ CALC.	$ 36
KEYBOARD FOCUS 9000	$ 49
* OMNIKEY 101NI SOME ADJUSTABILITY	$ 84
* OMNIKEY 102 12 LEFT FNC KEY, SOME ADJUST	$ 83
* OMNIKEY ULTRA-T 24 FNC KEYS	$ 119
QT SCORPIUS 90M KEYBOARD W/TRACKBALL	$ 44

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* DRAM 1MB-8	$ 5
* DRAM 256K-80	$ 6
* DRAM 256KX16 70NS FOR VIDEO CARDS	$ 21
* DRAM 4X256K-8	$ 5

EDO - RAM

EDO ESIMM 4MB 1X32 60NS MEMORY	$ 138
EDO ESIMM 8MB 2X32 60 NS MEMORY	$ 270
EDO SIMM 16MB 4X32 60 NS MEMORY	$ 621
EDO SIMM 16MB 4X32 70 NS MEMORY	$ 578

PARITY/NON-PARITY

* ESIMM 64MB 16X36 70 NS MEMORY	$1,327
ESIMM 4MB 1X32 60 NS MEMORY	$ 128
ESIMM 4MB 1X32 70 NS MEMORY	$ 125
ESIMM 4MB 1X36 60 NS MEMORY	$ 144
ESIMM 4MB 1X36 70 NS MEMORY	$ 145
ESIMM 1MB 256X36	$ 35
ESIMM 8MB 2X32 70 NS MEMORY	$ 251
ESIMM 8MB 2X36 60 NS MEMORY	$ 314
ESIMM 8MB 2X36 70 NS MEMORY	$ 299
ESIMM 16MB 4X32 60 NS MEMORY	$ 497
ESIMM 16MB 4X32 70 NS MEMORY	$ 498
ESIMM 16MB 4X36 60 NS MEMORY	$ 566
ESIMM 16MB 4X36 70 NS MEMORY	$ 565
ESIMM 2MB 512X36 60/70 NS MEMORY	$ 76
ESIMM 32 MB 8X32 70NS MEMORY	$ 997
ESIMM 32MB 8X36 70 NS MEMORY	$1,138
* HP 8MB SIMM 2X32 70 NS MEMORY D2691	$ 354
* KINGSTON 4MB 1X32 70NS ESIMM KTH-NPVEC/4	$ 156
* KINGSTON 8MB 2X32 70NS ESIMM MEMORY	$ 300
* KINGSTON 16MB 4X32 60NS ESIMM MEMORY	$ 640
* KINGSTON 4MB 70NS 30PIM SIMM MEMORY	$ 163
* KINGSTON 32MB 8X36 60NS ESIMM MEMORY	$1,347
16MB 16X9 70NS SIMMS	$ 447
SIMM 1MB 1X8 [2 CHIP] 70 NS MEMORY	$ 34
SIMM 1MB 1X9 [3 CHIP] 60 NS MEMORY	$ 39
SIMM 1MB 1X9 BP [3 CHIP] 70 NS MEMORY	$ 33
SIMM 1MB 1X9 [3 CHIP] 70NS MAJOR MEMORY	$ 39
SIMM 1MB 1X9 [9 CHIP] 70 NS	$ 41
SIMM 256K	$ 11
SIMM 4MB 4X9 MAJOR [3 CHIP] 60 NS MEMORY	$ 140
SIMM 4MB 4X9 BP [3 CHIP] 70 NS MEMORY	$ 128
SIMM 4MB 4X9 [9 CHIP] 70 NS MEMORY	$ 153
SIMM CONVERTER 30 PIN TO 72 PIN	$ 25

MONITORS

9"

9" MONO VGA MONITOR	$ 112

14"

14" SVGA .39 DPI 1024 MONITOR	$ 180
* 14" SVGA NI BLACK CASING MONITOR	$ 256
* 14" KFC DIGITAL SVGA .28 NI MONITOR	$ 294
14" MONO AMBER MONITOR	$ 67
14" MONO VGA PAPERWHITE MONITOR	$ 84
* 14" HP VGA PAPERWHITE MONITOR MONOCHROME	$ 204
14" MONO WHITE MONITOR	$ 65
* 14" MONO WHITE MONITOR IQ SM1411	$ 77
14" SVGA .28 1024X768 INTERLACED MONITOR	$ 198
14" CTX SVGA .28 1024 INTERLACED MONITOR	$ 235
14" CTX SVGA .28 1024X768 NI MONITOR	$ 242

MICRO MARKETPLACE

15"

• 15" CTX SVGA LOW RAD MONITOR 1562GM	$ 338
15" KPC SVGA .28 1280 NI MONITOR	$ 296
15" KPC DIGITAL SVGA 1280 .28 MONITOR	$ 347
• 15" MGC SVGA .28 1280 NON-INT MONITOR	$ 300
15" MAG DX15/DIGITAL 1280NI .28 MONITOR	$ 370
• 15" NEC XV-15 MONITOR	$ 472
• 15" SONY CPD15SF MONITOR	$ 480
• 15" SONY TRINITRON TUBE OEM MONITOR	$ 424
• 15" VIEWSONIC 15GS SVGA MONITOR	$ 441

17"

• 17" BLACK CASING SVGA MONITOR	$ 714
• 17" IDEK IYAMMA 8617A MONITOR	$ 762
17" KPC .28 1280 MONITOR	$ 583
17" KPC DIGITAL .28 1280 MONITOR	$ 635
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• 17" SONY TRINITRON TUBE OEM MONITOR 1882	$ 948
• 17" VIEWSONIC 17GA MONITOR 1280X1024 .27	$ 845

20"

• 20" HITACHI CM2095 1280 MONITOR	$1,226
• 20" KPC MONITOR	$1,139
• 20" SONY MONITOR 20SE	$1,929
• 20" SONY TRINITRON TUBE OEM MONITOR	$1,679

21"

• 21" HITACHI CM2110 1280 60Hz MONITOR	$1,717
• 21" MAG MX21F .28 1680X1280 MONITOR	$1,695
• 21" NEC XE-21 MONITOR	$1,820
• 21" NEC XP-21 MONITOR	$2,191

ACCESSORIES

EXTENSION CALE FOR VGA MONITOR	$ 4
POWER ADAPTER FOR MONITOR	$ 3

NETWORK CABLES

COAX NET CABLE 10'	$ 6
• COAX NET CABLE 100'	$ 21
COAX NET CABLE 1000' SPOOL	$ 98
COAX NET CABLE 25'	$ 8
COAX NET CABLE 50'	$ 13
COAX NET CABLE 500'	$ 110
COAX BNC CONNECTOR CRIMP-ON	$ 1
COAX BNC T-CONNECTOR FEMALE/MALE/FEMALE	$ 2
COAX BNC TERMINATOR 50ohm	$ 1
COAX BNC CRIMPING TOOL RG58 RG59	$ 24
COAX BNC STRIPPING TOOL RG58 RG59 RG62	$ 26
• 10BT NET CABLE 1000' LEVEL 5 (PLENUM)	$ 160
• 10BT NET CABLE 1000' LEVEL 5 (PVC)	$ 200
10BT NET PATCH CABLE 14' 8P8C LEVEL 5	$ 7
10BT NET PATCH CABLE 25' 8P8C LEVEL 5	$ 8
10BT NET PATCH CABLE 7' 8P8C LEVEL 5	$ 6
• 10BT JACK SURFACE MOUNT 6P4C SINGLE	$ 2
• 10BT JACK SURFACE MOUNT 8P8C SINGLE	$ 2
10BT CRIMPING TOOL 8C	$ 24

NETWORK CARDS

3 COM 3C509 EIII COAX CARD	$ 109
3 COM 3C509 EIII AUI.10BT,10B2 BULK PK	$ 90
3 COM 3C509 EIII 10 BASE T BULK	$ 77
• 3 COM 3C509 EIII 10 BASE T 60 PACK	$4,238
3 COM 3C509 EIII TPO 10BT KIT	$ 106
• 3 COM 3C529 EISA COAX BULK	$ 230
• 3 COM 3C529 10 BASE T 30 PACK	$5,365
3 COM 3C579 COAX/10BT RETAIL PACK	$ 222
3 COM 3C579 COAX/10BT BULK PACK	$ 188
3 COM 3C590 EIII PCI COMBO CARD	$ 144
3 COM 3C590 EIII PCI COMBO KIT	$ 161
• 3 COM 3C595-TX 10/100BT PCI KIT	$ 159
• ARTISOFT AE-2 CARD	$ 201
• ARTISOFT AE-2 KIT	$ 469
• ARTISOFT AE-3 CARD	$ 239
• ARTISOFT AE-3 KIT	$ 547
• ARTISOFT LANTASTIC NODE RUNNER 2000C CRD	$ 175

HUBS/MORE CARDS

HUB 16 PORT LAN PROFESSIONAL +1 BNC	$ 183
HUB 8 PORT LAN PROFESSIONAL +1 BNC	$ 83
HUB 16 PORT CELAN +1 BNC	$ 321
HUB 16 PORT CELAN +1 BNC SNMP UPGRADEABL	$ 321
HUB 8 PORT CELAN +1 BNC	$ 132
• INTEL ETHEREXP PRO 10/100 PCI 10BT	$ 210
INTEL ETHEREXPRESS PRO 10BT BULK	$ 94
• LANTASTIC 6.0 SOFT-1PK DOS/WIN	$ 83
• MICRODYNE NE2000T+ 10BT NIC (EAGLE) BULK	$ 67
NE2000+ COMP ISA COMBO CARD CELAN	$ 31
NE2000+ COMP ISA COMBO NOVELL APPROVED	$ 24
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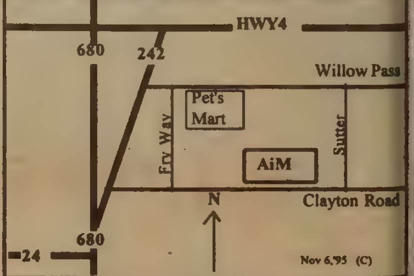

Introducing: NEW! MULTIMEDIA ACCELERATOR

TARANTULA 64 MK.II

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S3
Super-fast DOS Performance for
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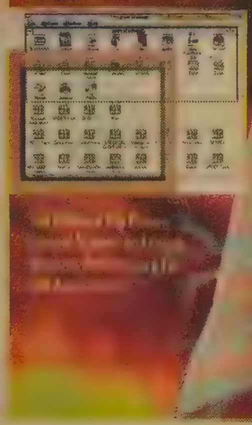
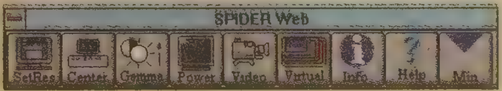


- 64-bit Multimedia Engine.
- Fast RAMDAC to ensure high performance in true color modes.
- Hardware video accelerator: scaling and color space conversion.
- Hardware graphics accelerator: enhanced BitBlt and pattern fill.
- True color and non-interlaced at extremely high resolution: 1152x864.
- Extremely high resolution up to 1600x1200 in 64K colors.
- Supports many common software codecs (compress/decompress) including MPEG.*
- Easy to use customized software: SPiDER Web

**Software MPEG: The Tarantula 64 Mk. II accelerates digital video by off-loading the CPU intensive task of scaling and color space conversion. Pentium or equivalent performance CPU is recommended for decoding task SPiDER hardware MPEG decoder is recommended for slower system.*



SPiDER Web: FEATURES

- Resolution, Color, Refresh Rate Change
- Refresh Rate and Resolution on-the-fly
- Virtual Screen: Pans and Zooms
- Monitor Centering and Adjustment
- Refresh Rate Check
- Gamma Correction Utility
- Power Management Compliance to DPMS
- Video: AVI playback

SPECIFICATION:

MultiMedia Accelerator: S3 Vision968
Bus: PCI & VLB
Display Memory: 2MB exp 4MB VRAM
Video Connector: DB-15
Video Signal: Analog

We Bring Accelerator Powers to You

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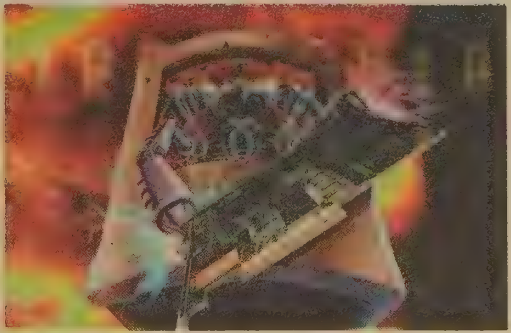
"It doesn't crawl, it sprints. And not only is it one of the fastest 64-bit cards you can get, it's also competitively priced."
CMP Windows Magazine Dec. 1994

The Tarantula 64 "is fast and dependable."
OS/2 Magazine, April 1995

TARANTULA 64



End-users who wish to upgrade the original Tarantula 64 to the new Mark II, please contact SPiDER Graphics customer services.

Resolution	Colors	Memory	Selectable Refresh Rate
640x480	256-16M	2MB	60,72,75,90
800x600	256-16M	2MB	60,72,75,90,87i
1024x768	256-64K	2MB	60,70,75,80,87i
1152x864	256-64K	2MB	60,70
1280X1024	256	2MB	60,72,75,87i
1600X1200	256	2MB	60
1024X768	16M	4MB	60,70,75,80,87i
1152x864	16M	4MB	60,70
1280X1024	32K-64K	4MB	60,72,75,87i
1600x1200	32K-64K	4MB	60

Available colors: 256,32K,64K,16M, all non-interlaced, except i=interlaced. Graphics modes support vaires between applications and operation systems.

COMPATIBLE DRIVERS SUPPORT:

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MS-Windows NT
MS-Windows 95
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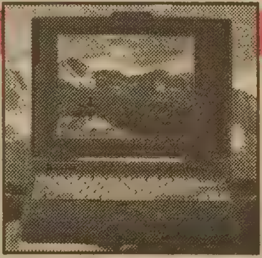

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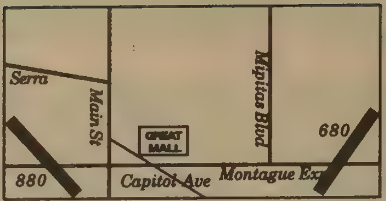

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16 MB Memory
1.2GB Hard Disk Western Digital
Diamond Stealth 64/2MB/Video VRAM
17" .26 dp NI Monitor
Toshiba 4X CD-Rom
Sound Blaster 16
256K Cache
Hi-Speed I/O 2 Serial/1 Parallel
101 k Keyboard 95
1.44MB 3.5" FDD
Logitech Mouse
Free 28.8 KBS Fax/Modem, Yamaha M10 or 120W Speaker

100MHZ

$2788

PERFORMANCE SYSTEM 2

PENTIUM TRITON PCI MULTIMEDIA

- Full-Tower or Mid-Tower w/ CPU Fan
- Intel Triton Chipset Mother Board
- 16 MB Memory
- 1.2GB Hard Disk Western Digital
- Diamond Stealth 64/2MB/Video DRAM
- 17" .28 dp NI Monitor
- Toshiba 4X CD-Rom
- Sound Blaster 16
- 256K Cache
- Hi-Speed I/O 2 Serial/1 Parallel
- 101 k Keyboard 95
- 1.44MB 3.5" FDD
- Logitech Mouse
- ***Free 14.4 KBS Fax/Modem, Yamaha M10 or 120 Watts Speakers***

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VALUE SYSTEM 1

PENTIUM TRITON PCI MULTIMEDIA

- MID-Tower
- Intel Pentium CPU W/CoolerFan
- 256K Cache Memory
- 8 MB Memory
- PCI M/B Intel Triton ChipSet
- PCI Enhanced IDE Controller
- Hi-Speed I/O 2 Serial/1 Parallel
- 1.44 MB FDD 3.5"
- 1.275 GB HD WD 10MS
- Diamond Stealth Video/64/2MB
- 15" SVGA Monitor, FLAT .28
- NI Energy Saver
- 101 k Keyboard
- Sound Blaster 16
- Toshiba 4X CD-ROM
- 80 Watts Speakers

90MHZ

$1828

VALUE SYSTEM 2

PENTIUM TRITON PCI MULTIMEDIA

- MID-Tower
- Intel Pentium CPU W/CoolerFan
- 256K Cache Memory
- 8 MB Memory
- PCI M/B Intel Triton ChipSet
- PCI Enhanced IDE Controller
- Hi-Speed I/O 2 Serial/1 Parallel
- 1.44 MB FDD 3.5"
- 850 MB HD WD 10MS
- 1MB SVGA 64/PCi
- 15" SVGA Monitor Flat Ni .28
- NI Energy Saver
- 101 k Keyboard
- Sound Blaster 16
- Toshiba 4X CD-RQM
- 80 Speakers

90MHZ

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BEST BUY 1

PENTIUM TRITON PCI MULTIMEDIA

- MID-Tower
- Intel Pentium CPU W/Cooler Fan
- 256k Cache Memory.
- 8 MB Bemory
- PCI M/B Intel Triton ChipSet
- PCI Enhanced IDE Controller
- Hi-Speed I/O 2 Serial/1 Parallel
- 1.44 MB FDD 3.5"
- 635 MB HD WD 10MS
- PCI Super VGA w/1MB
- 14" SVGA Monitor NI .28
- NI Energy Saver
- 101 k Keyboardr
- Sound Blaster 16
- Panasonic 2X CD-ROM
- Speakers

75MHZ

$1318

BEST BUY 2

486DX4-100 SYSTEM W/MULTIMEDIA

- MID-Tower
- 486 VLB Green Mother Board
- AMD CPU W/Cooler Fan
- 256k Cache Memory
- 4 MB Memory
- IDE Enhanced Controller
- 2 Serial/1 Parallel
- 1 Game Part
- 1.44 MB FDD 3.5"
- 635 MB HD 10MS WD
- Super VGA w/1MB VLB
- 14" SVGA Monitor
- Energy Saver, Green
- 101 k Keyboard
- Panasonic 2X CD-ROM
- Speakers
- Sound-Blaster 16

$968

CPU & MEMORY

Intel Pentium 133	$579
Intel Pentium 120	$499
Intel Pentium 100	$299
Intel Pentium 90	$269
Intel Pentium 75	$189
Intel 486DX4-100	
Intel 486DX2-66	$99
AMD 486DX4-100	$99
AMD 486DX2-80	$69
AMD 486DX2-66	$59
1X32 70(4MB)	$125
2X32 70 (8MB)	$240
4X32 70 (16MB)	$485
8X32-70(32MB)	$979

MOTHERBOARD

P5 Triton Endeavor 256K Burst	$329
P5 Triton Zappa 256K	$219
P5 Triton Chipset, 256K, Hi-Speed I/O	$199
486 PCI, DX2/4, 256K	$109
486 VLB, DX2/4, 256K	$89

FLOPPY DRIVE

1.2/1.44MB Floppy	$38/26
Teac 1.2/1.44MB Floppy	$42/30
Teac Dual Floppy Drive	$79

HARD DRIVE

Conner 850MB IDE	$185
Conner 1.2GB IDE	$245
Conner 1 08GB SCSI-2	$279
Western Digital 340MB IDE	$169
Western Digital 850MB IDE	$189
Western Digital 1.2GB IDE	$269
Western Digital 1.6GB IDE	$379
Seagate 540MB IDE	$160
Seagate 1.06GB IDE	$239
Seagate 2.1GB Wide SCSI	$1059
Quantum 540MB SCSI-2	$179
Quantum 1.0GB SCSI-2	$279
Quantum 2.1GB SCSI-2	$729
Quantum 4.2GB SCSI-2	$999
Quantum 2.1GB Wide SCSI	$959

CONTROLLER CARD

ISA IDE w/ 2S, 1P, 1G	$12
VLB IDE w/ 2S, 1P, 1G	$17
VLB IDE w/ Hi-speed I/O	$29
PCI Adaptec 2940 SCSI-2	$189
PCI Adaptec 2940W SCSI	$249

TAPE BACKUP

Colorado 350MB Internal	$129
Colorado 800MB Internal	$169
Colorado 1.3GB Internal	$295
Colorado 350MB External	$279
Colorado 700MB External	$369
Conner 420MB Internal	$129
Conner 850MB Internal	$199

SOUND CARD

Sound Blaster 16 IDE Vibra	$69
Sound Blaster 16 SCSI-2	$105
Sound Blaster 32	$149
Sound Blaster AWE32	$229

CD-ROM

Toshiba 4X IDE	$149
Toshiba 4X SCSI-2	$199
Toshiba 4.4X SCSI-2	$299
Plextor 6X SCSI-2	$459
Panasonic 2X	$55
Panasonic 4X	$129
Mitsumi 4X IDE	$129

MODEM

14.4 Internal Fax Modem	$42
14.4 Internal Voice/Fax	$55
28.8 Internal Fax, V.34	$115
28.8 Internal Fax V.34	$169
US Robotics 14.4 Internal	$88
US Robotics 14.4 External	$105
US Robotics 28.8 Internal	$189
US Robotics 28.8 External	$229

KEYBOARD & MOUSE

101-Key Keyboard	$15
MS Natural Keyboard	$59
Focus 2001 Keyboard	$29
Focus 9000 Keyboard	$45

MONITOR

MAG DX 15 15" 1280X1024 .28 NI Digital	$369
MAG DX 17 17" 1280X1024 .26 NI Digital	$639
ViewSonic 17 1600X1200 .27	$795
ViewSonic 17 GA w/ Stereo Speakers	$795
ViewSonic 21 1600X1280 .25	$1599
Sony 15SF .25	$459
Sony 17SF .25	$829

VIDEO CARD & MPEG

Diamond Stealth 64 1MB DRAM	$109
Diamond Stealth 64 2MB DRAM	$149
Diamond Stealth 64 2MB DRAM MPEG	$150
Diamond Stealth 64 2MB VRAM	$250
Diamond Stealth 64 4MB VRAM	$439
ATI Mach 64 2MB DRAM	$165
ATI Mach 64 2MB VRAM	$249
ATI Mach 64 4MB VRAM	$439
PCI Trident 9440 1MB	$65
PCI S3 1MB	$95
VLB 1MB SVGA	$65
MPEG Playback Card Full Screen	$165

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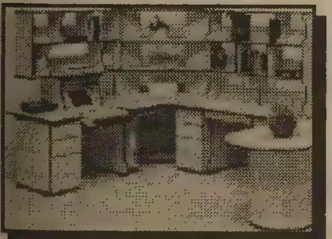

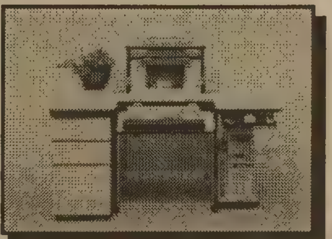

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Item	Price
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• PENTIUM 66/75/90 MHz	119/198/270
• 486DX4 75/100 MHz	139/154
• 80486DX-33 MHz	$79
• 80486DX-50 MHz	119
• 80486DX2-50 MHz	109
• 80486DX2-66 MHz	119
• 80486SX-25 MHz	58
• 80486SX-33 MHz	49

A.M.D. CPU CHIPS

Item	Price
• 80486DX-33MHz	$142
• 80486-2-66 MHz 3 Volt	58
• 80486-2-66 MHz 5 Volt	58
• 80486-2-80 MHz	59
• 80486-4-100 MHz	98
• 80486-4-120 MHz	124

CYRIX CPU CHIPS

Item	Price
• CX 486DX-33	CALL
• CX 486DX-40	CALL
• CX 486DX-50	CALL
• CX 486DX2-80 5 Volt	69
• CX 486DX2-66	49
• CX 486DX4-100	88

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IBM TYPE

Item	Price
1x9-60 3 Chip	$40
1x9-70 3 Chip	39
1x9-80 3 Chip	37
1x9-80/70/60 9 Chip	39/40/41
1x9-10	34
4x9-70	146
4x9-80	146
4x9-60	149

MAC TYPE

Item	Price
1x8-100 8 Chip	$34
1x8-80 2 Chip	36
1x8-70 2 Chip	38
1x8-80/70 8 Chip	35
2x8-80/70	89
4x8-80/70	136/138
16x8-80/70	CALL
Mac IIfx 4/16 MB Kit	CALL
256K VRAM	CALL
512K VRAM	CALL
16/32/64/128MB Kits for Quadra 700/900 & Mac IIfx, ci	CALL
NEW 72 PIN SIMM for MAC LCII & CENTRIS	CALL

72 PIN SIMMS (36 BIT)

Item	Price
256Kx36-80/70	$40/49
512Kx36-80	79
512Kx36-70	85
1x36-70	150
1x36-60	155
2x36-80/70/60	298/310/319
4x36-70/60	529/545
8x36-70 NEW	1068

32 BIT SIMMS ALSO AVAILABLE

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DRAMS

Item	Price
256x1-80	$2.00
256x1-100	2.00
256x1-120	2.00
256x4-60/70/80	4.99
64x4-80/100	3.00
1x4-80 DIPP	39
1MBx1-70	5.99
1MBx1-80/60	5.99
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Item	Price
64x4-10/12 Page, 18pin	$7.50
256x4-80/70 Page, 20pin	7
256x4 Video Page 28pin TC524256Z-70	9
256x4 Video 28pin TC524256Z-60	8.50
1x4-80/70 Page 20pin ZIPP	32
1x4-80/70 Page 20pin DIPP	36

CACHE MEMORY

Item	Price
32Kx8-20	$6.99
32Kx8-15/12	7.00
64x4-20	7.50
64x4-15	5.50
8Kx8-20	4.75
8Kx8-15	4.90
16Kx4-20	2.75
16Kx4-15	3.50
64x1-20	6.75
64x1-15	9.50
128x8-20	26
128x8-25	25

MATH CO's

INTEL/CYRIX/ULSI

Item	Price
287-10	$29
8087-1/2/3	89/69/59
287XL Intel Tube	49
387SL Intel Tube	49
387SX-26/20/33	49
387SX-25 Cyrix	39
387SX-33 ULSI	34
387DX-20 Intel Tube	36
387DX-25 Intel Tube	35
387DX-33 Intel Tube	45
387DX-40 Cyrix/IIT	39
4167-25/33 Weitek	200/375

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LASER PRINTER MEMORY

Price includes Memory, Board & Installation Instructions

IBM LASER

Item	Price
4019/4019E 1/2/3.5 MB	$89/129/179
4029 (All Model) 4 MB	195

EPSON LASER

Item	Price
6000-2/4MB	$135/215
7000-1/2/3 MB	125/149/189
Action LaserII-2/3/5 MB	159/205/299

HP LASER

Item	Price
HPII/IID 2/4 MB Board	$135/219
HP 4/4M 4/8MB	185/345
HP IIP,IIP+,III,IIID,IIIP 1/2/3/4	85/135/155/220
IIsi 4/8 MB	179/345
DeskJet 500/500c 550C 256K	85
Design Jet Plotter 4 MB	185

PANASONIC LASER

Item	Price
KXP4410/KXP4430 1/2/3/4 MB	$95/135/175/235
KXP4420/4450/4451 1/2/3/4 MB	95/139/185/245
KXP4450 1 MB	119
KXP4455 2 MB	139

OKI LASER

Item	Price
OL400 1/2 MB Board	$109/139
OL800/820 2/4 MB Board	139/229
OL810 2/3/4 MB Board	159/189/229

QMS LASER

Item	Price
PS 410 2/3/4 MB	$149/195/225
PS 860, 1700 1/4/8 MB	89/133/179
PS 815, 825, 815MR, 2/4/6	168/232/295

SHARP LASER

Item	Price
9500PS 1 MB	$75
JX-9500/9700 1/1.5/2.5/4	110/135/175/245

OTHERS

Item	Price
Apple Laserwriter II/IINT/IINTX 4 MB	$235
Brother HL-4 2/3/4 MB	145/182/235
Brother HL-8E V 1/2,MB	99/139
Compaq Pagemarq 15 & 20 1/4/8	79/139/266
Kyocera F800, F800Am F800T 2/4	95/137
NEC Silentwriter 90/290	109/124
NEC Silentwriter 95 2 MB	109
TI Microlaser 1 MB	98
Packard Bell Video Memory 1 MB	39

NexGen NX586 Motherboard w/CPU

Pentium Class Processor

Item	Price
P100 (PCI)	$395
P90	329
P80	299

MEMORY BOARDS

Item	Price
• RAMpAT 16 Bit	$85
• RAMpAT Plus	$125
• SIMMply RAM for PS/1 16 Bit	149
• SIMMply RAM	159

TEAC FLOPPY DRIVES

Item	Price
1.44 MB	$34
1.2 MB	49
Dual Floppy 1.2/1.44	88
Heat Sink w/Fan For 486's/Pentium	10/18

COMPAQ MEMORY

Model		P/N	
LTE 286	1 MB	117081-001	$89
	2 MB	117081-002	125
	4 MB	117081-003	219
SLT 286	1/4 MB	110237-001	99/259
LTE 386S/20	2 MB	12125-001	129
	4 MB	121125-002	195
Contura Lite 20/25	2 MB	129769-001	125
	4 MB	129769-002	235
	8 MB	129769-003	395
Portable 386	1 MB	107651-001	125
	4 MB	107653-001	310
Portable III2 MB		10-7332-001	125
	EBD	167811-001	225
SLT 386	2 MB	118304-001	145
	4 MB	118305-001	225
Deskpro 386S (E. Board)			
	4 MB	11364-001	285
	4 MB	112534-001	189
Deskpro 386/33L, 486/33L, 50/25			
	2 MB	115144-001	145
	8 MB	116561-001	375
	32 MB	116568-001	1475
Deskpro 386/20e, 25e (E. Board)			
	4 MB	113645-001	285
Deskpro 386/20,20e,25e			
	4 MB	113132-001	199
Deskpro 286N, 386N, 386SX/20, 386/25M, 486/33M, 486S/25M, 486S/16M			
	2 MB	118689-001	189
	4 MB	118690-001	345
	8 MB	128877-001	395
Deskpro 486/33L, 486/50L, 386/33L			CALL
Prolinea 3/255 & 3/252S			
	2 MB	141738-001	135
	8 MB	141742-001	315
Prolinea 4/33	2 MB	141682-001	125
	4 MB	141684-001	189
	8 MB	141685-001	345
Other Models			CALL

TOSHIBA MEMORY

Model	Size	Price
T8500, T5200	2/8MB	$129/449
T5100, T3100, T1600	2 MB	139
T3100SX	2/4 MB	135/199
T3200SX, SXC	2/4 MB	125/199
T4400SX, SXC, T6400	2/4 MB	135/249
T4500/4600/4800, T1900/1910, T1950/C 3.3 Volts	8/16 MB	395/769
T3300SL	2/4/6 MB	135/210/299
T3100	2 MB	135
T2200SX, SXE, T1000LE	2/4/8MB	135/210/379
T1800 Satelite	2/4/8 MB	135/210/379
T2100 Series	4/8 MB	188/335
	16/24 MB	649/1052

NEC MEMORY

Model	Size	Price
Prospeed 286, 386SX/16	1/2/4 MB	$125/185/269
Prospeed 386	2/4 MB	189/475
Prospeed SX/20	1/4 MB	125/249
Powermate 386/25S	2/8MB	139/369
Powermate 486/25E, 486/33I	2/8 MB	135/365
Powermate Express Series	1/4/16 MB	135/225/689
Other Models		CALL

NOTEBOOK MEMORY

Model	Size	Price
AST Premium Exec	1/4 MB	95/195
AST Power Exec 3/25	4/8/16 MB	CALL
Compaq Contura Lite 20/25	2/4/8 MB	149/266/399
Chicony 386SX	4 MB	198
Chicony 386SL/25	2/4 MB	149/229
DECPC 320P	2/4/6 MB	195/269/389
DELL 320N & 212N	1/2 MB	99/125
DELL 320N, NC	2 MB	139
DELL 325N, NC	2 MB	179
DELL NL25, NL20	2 MB	179
Epson NBS3	1/4 MB	98/225
Everex Tempo LX	2 MB	135
HP 95LX	1/2 MB	159/279
IBM L40SX, N33/SX	2/4/8 MB	119/220/395
IBM N51SX & SLC	1/4/8 MB	99/165/362
IBM PS/2 N45 SI	2 MB	188
MAC PB 160, 180	6/10 MB	249/425
MAC PB 140, 170	2/4/6 MB	89/175/229
MAC PB 100	2/4/6 MB	89/179/239
Magnavox Metalis 386SX	4 MB	199
NEC Ultralite 286F	1/4 MB	99/199
Packard Bell 386SX	1/4 MB	99/229
Panasonic CF 170/270/370	1/2 MB	85/129
Sharp PC 8501	2 MB	135
Sharp 678/6881	2 MB	129
Sampo NB SX/26, SX/25	2/4 MB	145/225
TI Travelmate 2000	1 MB	129
TI Travelmate 3000	2 MB	135
TI Travelmate 4000	4 MB	229
Zenith Turbosport 386 E	1/4 MB	125/325
Zenith Supersport SX	2 MB	189
Zenith Mastersport	2 MB	189

IBM PS/2 & PS/1 MEMORY

Model	Size	Price
PS/1 286/386SX	2/4 MB	$135/225
PS/1 Consultant Essential/Expert	1/2/4/8 MB	79/125/189/320
386 Valuepoint	2/4/8 MB	99/179/325
486 Valuepoint	4/16 MB	189/595
PS/2 30-286	2 MB	129
50Z, 55SX, 65SX, 70	2/4 MB	99/179
40SX, 35SX,35SL	2/4 MB	99/179
70A21, A61, 121	2 MB	135
80-11, 121, 311	4 MB	245
95, 90, P75, PS/1 Pro	2/4/8 MB	135/129/335
16 Bit Exp Bd For 50, 50Z, 60, 65SX	0K	179
32 Bit Exp Board for all 70 & 80 models	0K	189
RISC 6000	16/32/64 MB	745/1490/2890
Other Models		CALL

AST MEMORY

Model	Size	Price
Bravo 3/33(LC) 325S	2/8 MB	$120/325
Bravo 486/25 & 4/33	2/8 MB	135/345
Bravo 486LC	4/8/16 MB	189/325/595
Cupid-32 Board	0K	239
Premium 386C	4 MB	189
Premium SE 450	4 MB	189
Premium 386/25, SX,33,486/25	1 MB	75
Premium II 386, 486	1/4 MB	85/189
Executive Notebook	4 MB	189
Other Models		CALL

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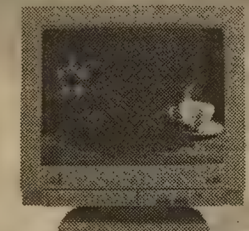

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KD-1700V

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- High contrast, non glare, dark tinted CRT provides sharp, clear images
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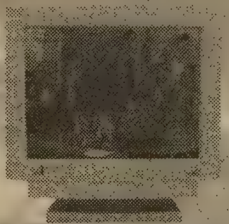
- Tilt and swivel base allows comfortable viewing from all angles



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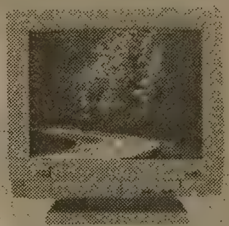
Ultra-VGA with VESA Standard
KD-17110

- Analog input permits unlimited color selection
- High contrast etched screen provides sharp, bright images
- 1024x768 maximum resolution supports VGA, super VGA and XGA
- Fully compatible with IBM VGA, 8514/A and Super VGA
- Tilt and swivel base allows comfortable viewing from all angles



15" MULTI-SCAN COLOR
Multi-Scan with VESA Standard
KD-1500V

- Ultra fine 0.28dp which provides excellent display for long term viewing
- Analog input permits unlimited color selection
- High contrast, non glare, dark tinted CRT provides sharp, clear images
- 1280x1024 max resolution supports VGA, 8514/A, super VGA and XGA
- Tilt and swivel base allows comfortable viewing from all angles

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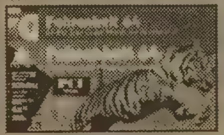

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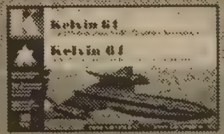

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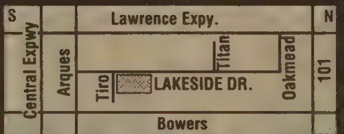

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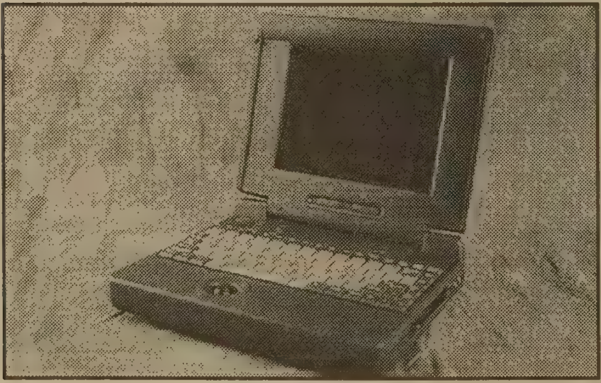

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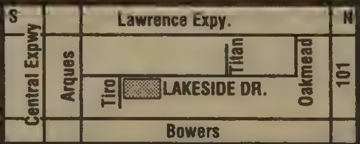

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Intellectual Property In A Digital World

Who Owns It? Who Controls It? Who Pays For It?

Earlier this year I had occasion to attend a Software Forum meeting where the featured speaker was Esther Dyson and the subject was intellectual property. Dyson held, as she has written in Release 1.0 and elsewhere, that in a world where it is not possible to physically control the reproduction and dissemination of one's creations, the time had come to define new methods of dealing with intellectual property issues. To the great consternation of her usually devoted audience, she went so far as to suggest that rather than sell software, programmers might want to give the software away and use it to promote ancillary business—citing, for example, Cygnus, one of the Bay Area's more successful recent startups, which makes its money by selling support services for the free GNU software, in wide usage almost everywhere there's UNIX.

On the other side of the spectrum there's the Software Publishers Association in Washington DC, which has been remarkably successful in attaching increasingly draconian federal criminal penalties to increasingly casual software copying. In its kinder, gentler aspect, it also extensively promotes the theme of "Don't Copy That Floppy" in schools, businesses, and anywhere else the issue is likely to come up.

While the software business is certainly embroiled in controversy about the impact of technology on its business model, the debate over intellectual property in a digital age rages on many fronts. The rush to net-based publishing has left publishers, editors, writers, photographers and other content providers scratching their heads over compensation schemes; as people try to figure out just what digital rights are really worth, the New York Times made headlines with a stunning (for writers) preemptive strike, declaring that henceforth all freelance work done for the paper would be considered work for hire—i.e. the writer forfeited all rights to it, in all present and future media. If nothing else, this move created a remarkable opportunity for other publishers to look good.

IP is a vast subject. We can't possible provide a comprehensive overview, but we hope the articles that follow provoke your thinking on the subject.

For software developers, Laura Majerus offers an explanation of patent law as it applies to software, and what sort of protection patent law offers to developers. We've also reprinted (with permission) Guy Lamolinara's article "Copyright in the Digital Age" from the Library of Congress Information Bulletin, describing the Library's CORDS (Copyright Office Electronic Registration, Recordation, and Deposit System) to allow fast checking of a particular works' copyright status and ownership.

Chris Bucholtz takes a look at a current Internet cause celebre that pits the Church of Scientology against dissident Internet-using former Scientologists. What might seem initially like an internal squabble within a religious sect is in fact profoundly significant for the future of intellectual property law as it operates globally on the net.

Roger Karraker explores a business model that may emerge from all this: eliminating the middlemen in publishing, and allowing writers to reach their audiences (and get paid) directly, using the net.

Finally, we sent John Downen off to talk to various industry folks with inside perspectives on IP issues, and we hope you'll find their views, various as they are, illuminating.

—Mary Eisenhart

By Guy Lamolinara

Copyright In The Digital Age:

CORDS Project To Make Registration, Verification Easier

The following article originally appeared in the June 12, 1995, issue of the Library of Congress Information Bulletin. *As it is relevant to this issue's topic of intellectual property, and since it shows what the Library of Congress and the Copyright Office are doing to keep up with technology, we've decided to reprint it here. You can access the Library of Congress at* http://www.loc.gov *or gopher to* marvel.loc.gov, *port 70. —eds.*

A classic case of technology advancing faster than the controls for its use exists in the copyright arena.

Digitization and the Internet make it possible to transmit materials anytime, anywhere. Both hard and electronic copies can be made at the press of a button.

But intellectual property rights of creators can be compromised by the technology that makes near-instantaneous transmission of data possible. Those using this information may not even know they are violating intellectual property rights.

One of the features of a Library of Congress and Copyright Office project, called CORDS (Copyright Office Electronic Registration, Recordation, and Deposit System), will be to allow users to check electronically the copyright registration and ownership status of a particular work. Registration of works in digital form will also be achieved.

"We need effective new ways to manage copyrighted materials in the new digital environment," said Mary Levering, associate register for National Copyright Programs. "Rights holders need to move from the old, costly, and time-consuming rights-clearance systems to ones in which ownership and licensing information is readily available."

CORDS is designed to help meet those needs in its three component systems:

- The Electronic Registration and Recordation System of CORDS will enable copyright applicants to prepare their copyright applications and deposit materials in machine-readable formats; to digitally sign their submissions using public key/private key encryption technology; and to send applications, deposits, and documents to the Copyright Office over the Internet, using Privacy Enhanced Mail, or PEM.

The system will enable the Copyright Office to receive digital submissions through the Internet, verify that each one is authentic and complete, debit fees from the applicant's Copyright Office deposit account, and send an electronic acknowledgment to the applicant.

The Copyright Office digital repository will hold these digital copyright deposit materials in a secure manner.

- Existing Copyright Office systems for cataloging and processing will be compatible with the new components.
- The Handle Management System will assign a unique "handle" as an identifier to each digital object registered. The handle is used to find the location of the digital object as well as its rights-management information.

"We need to design and develop the system that will store and retrieve copyrighted works in digital form from secure repositories to facilitate electronic dissemination in accordance with terms and conditions established by copyright owners—and we need to do this quickly," said Mrs. Levering, when discussing why the Copyright Office must develop such a system.

"Our objective is an easily accessible centralized system that will serve the public as well as authors and other copyright owners," she added.

Currently, much of the registration work of the Copyright Office begins with the receipt of a paper application sent by mail.

The CORDS test-bed phase is due to begin in the summer of 1995. Test-bed results will then http:be analyzed and changes made; follow-up test pilots will be developed. In 1996 efforts will begin to test digital registration and deposit of published textual materials, and participants will be chosen to cooperate in further testing on a format-by-format basis.

In 1997 plans call for inclusion of graphic materials such as illustrations and photographs, as well as sound recordings and music. Motion pictures and audiovisual works will be addressed in 1998.

According to Marybeth Peters, register of copyrights, "As we receive more and more applications, deposits, and documents electronically, we will see savings in the processing of such materials, and eventually in certain areas we will be able to reduce the number of employees required to do the job."

Currently an average of six staff members is needed in the various stages of the manual registration system to process approximately ten thousand claims per year. Under CORDS, this could be reduced ultimately to one or two persons per ten thousand claims.

Because CORDS is a digital system, it will reduce the processing and storage of digital works from the current seventeen physical steps to six purely online processes, requiring no physical resources or storage areas other than workstations and file servers.

Thus, for all works registered solely through CORDS, there will later be a tremendous savings both in personnel and space. There will also be no need to store and transport physical material.

"Most important," said Mrs. Levering, "service to Congress and the nation will be improved," as copies of works in digital form and rights-management information needed for required licensing and permissions can be made much more quickly available.■

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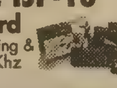

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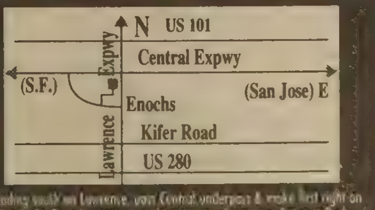

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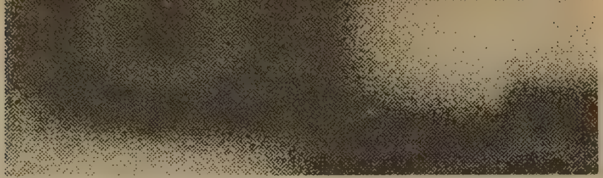

By Chris Bucholtz
Edittech International

Scientology Versus The Internet

Debate Rages Over Free Speech, Copyright, Trade Secrets, Freedom Of Religion, And Other Crucial Issues

Copyright law, trade secrets, and the Internet are providing the kindling—and the Church of Scientology is supplying the spark—for a heated debate over freedom of speech and intellectual property. An ongoing battle between the church and several former Scientologists has now evolved into a bigger controversy regarding the church's methods of dealing with its critics and the issue of how much the public has the right to know about the religion. While debate has centered on religion and censorship, the legal issues in these cases could have far-reaching implications for the Internet.

THE TACTICS OF THE CHURCH IN NAMING SYSTEM OPERATORS AND INTERNET SERVICE PROVIDERS IN ITS SUITS HAVE AN IMPACT THAT GOES FAR BEYOND THE DISAGREEMENTS BETWEEN THE CHURCH AND ITS FORMER MEMBERS.

The battle began with the posting of excerpts of secret scriptures, known as "the Advanced Technology," by a number of former church members around the world. According to the church, these documents may only be read by those who have had extensive spiritual training. The revelation of these documents to those not sufficiently trained, the church said, "could impede parishioners' spiritual progression, and out-of-context exposure to the materials can create misunderstanding."

The church's critics say the Advanced Technology is available only to those who have been thoroughly indoctrinated because, to the uninitiated, the documents are absurd and would cause potential new members to dismiss the religion outright.

To combat the distribution of portions of these texts, the church has sued many of these critics and has obtained the cooperation of the authorities for raids on the critics' systems and software. Also named in these suits have been the bulletin boards and Internet providers involved, a tactic that critics contend could result in the chilling of free speech on the net.

Erlich's Dissident BBS

One of the more celebrated cases is that of former church member Dennis Erlich, a Glendale, California, system operator who was a Scientologist for fifteen years. Erlich's last years in the church were spent as one of Scientology's top educational officials. It was his job to study all of Scientology's principles and documents and to know the written materials well enough to correct and retrain other Scientologists who made mistakes.

After breaking from the church, Erlich began a bulletin board to discuss Scientology. The service recieved anonymous postings, and Erlich reviewed the material for accuracy. What was accurate, he said, he posted to his bulletin board. Erlich admits to posting "a few" of his own messages, including excerpts from church documents he had studied so intently as a member, to his service.

Erlich, who is bitter about the time he spent in the church, says that publishing the excerpts about the religion was his method of providing a public service: "The public interest needs to be served, and I'm putting my ass on the line to make sure this information is available to the public. I'm doing this as a way to make up to the public for the fifteen years of work I did for the Church of Scientology helping them to bilk people."

But what was a public service to Erlich was a copyright infringement to the church. In February, Erlich's home was raided by a Glendale policeman and seven other people, including Scientology attorney Thomas Small, with a writ of civil seizure. They seized Erlich's hard drive and computer equipment, and, prior to deleting what they said were infringing files, Erlich says, church officials copied the whole of his hard drive: "They brought a 250MB Colorado hard disk in and plugged it right in, and, believe me, I know when my drive is being backed up."

Although a judge in San Jose later vacated the initial order for the raid and ordered the return of Erlich's equipment and files, Erlich

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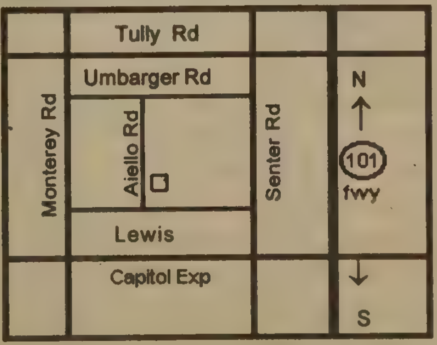

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alleges the church is using the information from the raid to continue to harass him. "I don't have any privacy. They took personal information from the hard drive, and long before this, they had fifteen years of my confessions as a member of the church. On top of that, the condition my hard drive was in is gone. I have some backups, but nothing complete."

Copyright Infringement: Yes Or No?

The initial order sought to prevent Erlich from continued "copyright infringement on the Internet computer network," an argument that Erlich's supporters say is easily countered.

The broadest limitation of the copyright law is that ideas and facts are not protected by copyright, but the verbatim use of the form the author uses to express these ideas and facts is protected. Even when a work is exerpted without alteration, the doctrine of "fair use" can allow the use of copyrighted material without the author's permission. Fair use can be determined through a balance of the purpose of the use, the nature of the copyrighted work, the amount and substance of the portion used in relation to the work as a whole, and the effect of the use upon the potential value of the copyrighted work. This is the same principle that allows book reviewers and essayists to reprint sections of other works in their analyses, and it is determined by the court on a case-by-case basis.

> ERLICH SAYS THAT PUBLISHING THE EXCERPTS ABOUT THE RELIGION WAS HIS METHOD OF PROVIDING A PUBLIC SERVICE.

Mike Godwin, an attorney for the Electronic Frontier Foundation, says that this provision of copyright law was the key to Erlich's defense. "I believe the materials he used do qualify under the fair use guidelines," he adds. "For the most part, they were excerpts accompanied by comment, and I can't think of a more appropriate application of the fair use doctrine."

Trade Secrets?

Although the church's original argument was that Erlich was violating its copyright, the church later declared that the materials Erlich and others have made available are "trade secrets" and subject to different criteria from copyrighted materials. The church's claim did not prevail; the presiding judge in the case dismissed the claim that Erlich had violated any trade secrets and ordered the church to return all property seized from Erlich in the raid. For Ehrlich, the ruling was a mixed blessing, because it also held that some of his postings did not qualify as "fair use" under the Copyright Act, thereby making him potentially liable in future action in the case.

"Trade secrets are another issue entirely," explains Godwin. "They aren't part of federal law. They're part of state law and can vary from state to state. The fair use argument does not apply, and trade secret law does not hinge on protected expression but on protected knowledge."

As the term suggests, trade secret laws are designed to protect commercial entities' abilities to compete. Therefore, Godwin says, using these laws as a basis to stop dissemination of church materials could prove to be a dead end: "For knowledge to be a trade secret, it must be yours and no one else's, and it must be information that, if given to a competitor, would cause that competitor to gain a competitive edge and cause serious damage to your business. This is a pretty interesting argument to apply to a church—if the Catholic church gets this information, will it cause it to surge ahead in the religion market?"

Melvin F. Jager, an attorney retained by the Church of Scientology, maintains that the trade secret laws are indeed applicable to the church's materials. "One key underpinning for the enactment of trade secret laws is the public policy of encouraging morality in dealings between people and entities and discouraging theft of confidential information," he says. "Protecting the Advanced Technology scriptures under trade secrets law encourages morality in the relationships between people and preserves and protects the most fundamental rights of privacy."

Jager says that the church had set a precedent with a 1993 case it had won by proving its scriptures brought money into the church: "The Advanced Technology would qualify for trade secret protection if it has sufficient economic value for the church, in addition to the other characteristics required to qualify as a trade secret under the law. In *Bridge Publications, Inc.* (the church's publishing arm) *v. Vien*, the court found that the church certainly did derive economic value from the Advanced Technology."

In winning that case, Warren McShane, president of Religious Technology Center, the official owner of copyright for Scientology materials, submitted declarations that said that RTC receives licensing fees from the advanced level Scientology churches, which are licensed to deliver the services which utilize these materials. The licensees receive donations in connection with the delivery of those services. "Therefore," Jager concludes, "RTC and its licensees all derive economic value from the Advanced Technology."

"The Church of Scientology has times when it wants to be a church and times when it wants to be a business," Godwin responds. "With regard to trade secret issues, they're trying to be a business."

But other courts in other cases have ruled that the Advanced Technology did not qualify as protected trade secrets. A similar case involving a box full of "secret" documents on tobacco research, allegedly stolen from RJR Reynolds, that was posted on the Internet by a UCSF professor has repeatedly withstood legal challenges because of the courts' view that the documents were in the public interest, trade secrets or no. While the trend toward not extending trade secret protection to Scientology documents has continued in two recent cases, no definitive ruling has been handed down.

Public Record?

Trade secrets or no, other legal conflicts have led to the spread of Scientology information.

This August, Arnoldo Lerma, an Arlington, Virginia, man who ran a bulletin board focusing on the church's activities, had his home raided and had software and equipment seized at the behest of the church. Lerma was posting documents from a previous case (*Church of Scientology International v. Fishman and Geertz, 1991*) in which the defendants had filed sections of the Advanced Technology in their

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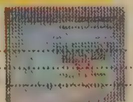

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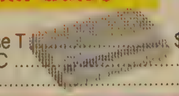

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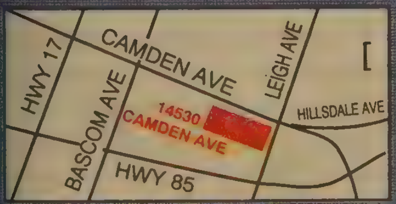

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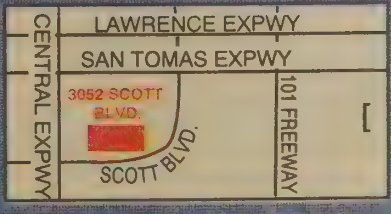

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brief to the court, effectively entering the material into the public record. Until the church's attorneys had the files sealed, any member of the general public could obtain these files.

As these earlier defendants had done, Lerma entered the "secret documents" in his filing. Within a few days, church attorneys succeeded in sealing the case files, but in the intervening days, any member of the general public could obtain the text of the case from the court, and with it, excerpts of the Advanced Technology.

Two reporters from the *Washington Post* obtained this information through the court and ran a lengthy article on the church on September 16. Despite the legal avenue through which the *Post* obtained this information, it was promptly added to the church's suit against Lerma. The revised suit claimed that *Post* reporter Richard Leiby "choreographed and instigated" Lerma's actions as part his own fifteen-year "campaign of harassment" against the religion. The case against the *Post* has since been thrown out, because the information was obtained through legal methods and because the newspaper had not violated the doctrine of fair use. The order to search Lerma's property has been modified to allow his attorneys to be present during the searches of his hard drive.

An order was issued in August that forbade the continued dissemination of the materials in the Fishman case, but by that point, it had been posted on almost a dozen sites on the Internet.

Also in August, marshals in Boulder, Colorado, acting on a church suit, raided the site of a bulletin board operated by Lawrence Wollersheim and Robert Penny called FACTnet. As in the Lerma case, the courts later vacated the initial temporary restraining order and ordered the church to return the seized equipment and files to the two men.

International Law?

In September, local police and Scientology officials visited the offices of XS4ALL, an Internet service provider in Amsterdam, Netherlands. Dutch law provides stronger protection than US law, so there was no search of any computer files and no seizure of equipment. Instead, the officials wrote down the serial numbers of all equipment in the XS4ALL office in preparation for a possible suit seeking to seize XS4ALL's assets.

The church complained that an anonymous remailer at XS4ALL was used to transmit its copyrighted documents. While that case has yet to be filed, a similar case in Finland forced another anonymous remailing service to reveal the name of a user the church alleged had uploaded secret material.

THE DOCTRINE OF "FAIR USE" CAN ALLOW THE USE OF COPYRIGHTED MATERIAL WITHOUT THE AUTHOR'S PERMISSION.

Implications For System Operators

While the issues of what constitutes fair use and whether religious tracts can qualify as trade secrets are thorny enough, the tactics of the church in naming system operators and Internet service providers in its suits have an impact that goes far beyond the disagreements between the church and its former members.

Should a bulletin board or service provider be found liable in such a case, it would imply that operators are responsible for ensuring the copyright ownership of all the material on their services, a mammoth task that observers worry would force many providers out of business for fear of litigation.

The courts have yet to see it that way, however. In the case of Erlich, the church also named bulletin board owner Tom Klemensrud and Internet provider Netcom in their suit. The suit against them was thrown out on February 22. A similar suit was filed in the Lerma case, naming Internet provider Digital Gateway Systems. The case against this provider was also dismissed.

Godwin believes this could be a more troubling issue than the particulars in the Scientology cases. "There's a lurking issue of how much blame can be placed on system operators for copyright infringement. I hope that Congress or the courts will realize this is a First Amendment issue and act to protect providers' rights."

The church, while continuing its trend of naming service providers in its suits, asserted in a position paper that service providers have the responsibility to act against alleged infringers when copyright holders blow the whistle.

"The position we believe to be most beneficial to all concerned is that an access provider has a responsibility to promulgate rules of conduct for its users and to enforce those rules," the church's paper says. "While it can be argued that access providers have no responsibility for controlling the tremendous flow of information through their systems, when evidence is presented of infringement of intellectual property rights, then access providers have a responsibility to take action. Moreover, when a particular user has shown a repeated pattern of abuse, the person should be removed from the system or the access provider held liable for any damage created."

Service providers fear that such a policy will force them to conduct extensive investigations and evaluate fair use claims, a labor-intensive exercise most wish to avoid.

"We don't want to be thrown into the liability chain," says William Burrington, general counsel for America Online. "We don't want to be put in the role of playing net cop." A panel of legal and online experts met in October and suggested the creation of a copyright arbitration board to quickly hear cases, but the torturous process of determining fair use and trade secret status would still remain a problem they agreed. And observers like Godwin worry that groups willing to use their legal clout could significantly affect the outcome of such a board's decisions.

"That would be par for the course," he says. "[The Scientologists] recognize there's a strong risk that they'll lose most, if not all, of these cases, but they hope that fear of litigation, fear of lost money through litigation, and fear of unlawful search and seizure will quiet discussion."

While the church said it must pursue this course of action to preserve the religion against those who "would destroy the spiritual future" of its followers, Godwin says the methods it is using to do this are what's focusing negative attention from Internet users on the church.

"They're finding that they're generating a lot of bad publicity, and they're getting people interested from a freedom of information aspect who, before, couldn't have cared less about Scientology," he says. "I think there's already a backlash." Godwin cited the Netherlands case as an example. "People there are posting copies of the Fishman declaration on telephone poles, and it's been added to hundreds of servers around the country. When you show a willingness to throw your weight around, people are more than willing to strike back." ■

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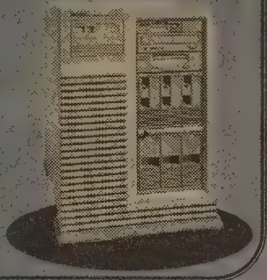

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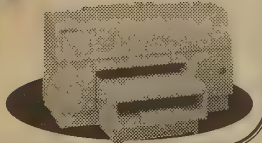

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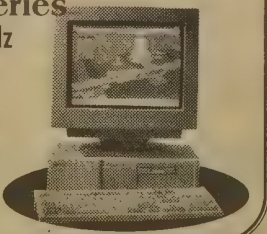

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It's an artist's-writer's-musician's ultimate fantasy: a world where creators and audience are intimately linked in an act of creation, one that requires no nightclub, no concert arena, no publishers, no promoters, no record labels—in short, none of the interlopers who get in the way of artistic creation.

I believe cheap electronic distribution of "intellectual property" gives us a historic opportunity to completely rewrite how we interact and compensate artists. I believe the breathtaking advances in easy delivery of information—primarily because of the World Wide Web and plunging costs for bandwidth—make possible a whole new paradigm: directly subscribing to content creators.

Newspapers, books, and magazines are only "modern" on the surface. Underneath they are really nineteenth century creations, quintessential artifacts of the assembly-line production of the Industrial Age.

Today's Distribution Model

Let's say I spend $1000 per year on books, magazines, online, etc. (that's probably low in my case). Let's say I think the sun rises and sets on Howard Rheingold, the author of *Virtual Reality* and *The Virtual Community*. Howard is prolific (his column "Tomorrow" appears each week in the *San Francisco Examiner*) and provocative. He's always interesting. But let's take a look at the tortured path I have been forced, until recently, to tread in order to get Howard's thoughts and to pay him.

I have to search out an Examiner and spend 50¢ to get fifty to sixty pages that are of little use to me. The Examiner, in one sense, is frightfully inefficient. It really costs about $2 to write, edit, print, and distribute a copy of that newspaper. I pay a small fraction; advertisers pay the lion's share to gain access to my eyeballs. It's cynical but accurate to say that advertising-supported media are in the business "of selling readers to advertisers."

Unfortunately for those advertisers lusting after my eyeballs, they just made a poor purchase. My copy of the *Examiner* will contain 150 articles and perhaps 175 advertisements. I live 70 miles from San Francisco, and most of the stories and ads are totally irrelevant to me. The advertisers wasted their money, the *Examiner* wasted more than a few trees, and Howard's share of my 50¢ is negligible.

I just wanted Howard's wisdom, but I had to engage in a complicated dance that involved the one thousand employees of the San Francisco Newspaper Agency. (On a typical newspaper, it takes four or five other employees—printers, ad sales reps, drivers, office clerks, etc.—to bring one writer/editor/photographer's work to you.) That's because newspapers, books, and magazines are only "modern" on the surface. Underneath they are really nineteenth century creations, quintessential artifacts of the assembly-line production of the Industrial Age.

That Was Then, This Is Now

But now there's the net. And what is bad for the *San Francisco Examiner* and its role as an intermediary may turn out to be a godsend for Howard Rheingold and me. And maybe for you, if you create ideas, words, music, images, or any other kind of "intellectual property," or if you would like to see more of your money go to creators and less to distributors.

What's going on here is that the sudden digitization of all media and the plummeting cost of bandwidth mean it is now trivially inexpensive to distribute content. "Media" no longer consists of "ink smeared on crushed trees" or film or plastic tape. It consists of electronic zeroes and ones that can be sent around the world for a few pennies or less and can be endlessly recycled.

Rob Tow, one of Interval Research's top thinkers, has observed that when the cost of a desired item falls tenfold or more, the resultant change can transform a society. For example, cars existed for thirty years before Henry Ford

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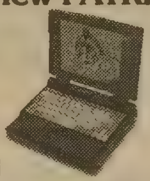

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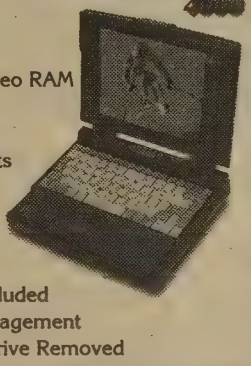

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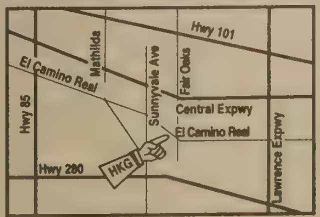

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got his assembly line down, and the cost of cars fell tenfold. A few years later, the industrial world's landscape was forever transformed by the automobile. So too with telephones, television, and now personal computers—when they were expensive, they were interesting but hardly transformative. When they became cheap enough to be ubiquitous, they irrevocably changed the world.

Hardware is one thing. Transportation is another. What we're seeing now is that the cost of transmitting information has suddenly gone from expensive—I remember when getting a long-distance phone call meant someone was ill or dead—to trivially cheap. In fact, according to economist Robert Cohen, plunging costs for bandwidth could fuel an enormous economic revitalization: "I like the research that Larry Roberts has done. It shows that since 1989 the cost of transmitting data looks very much like the cost of computers in the period 1965–70. Since 1989, we've seen the cost of transmitting a bit of data has dropped tenfold every three years from 3¢ to .3¢ to .003¢ by the end of this decade. The cost of transmitting data will fall a thousandfold this decade."

This means it is now cheaper and easier for me to get my information electronically, via my computer. For the past year I've not had to pay for the *San Francisco Examiner* in order to read Howard Rheingold. Howard's been publishing his columns on his World Wide Web page (*http://www.well.com/community/hlr*) and on HotWired's Web site. The falling cost of bandwidth has made it possible for Howard and me to engage in "disintermediation." I won't pretend that I understand it exactly, but essentially it's like buying "factory direct," cutting out the middleman. You see it in retailing now, with "factory stores" and warehouse stores. In the latter, several layers of distribution are collapsed. The result is lower prices for consumers and more revenue kept in the hands of the manufacturers.

"The trick is to control not the copies of your work but instead a relationship with the customers—subscriptions or membership," says Esther Dyson.

Extending this notion to information products, cutting out the middlemen becomes really doable, I think, because the cost of distributing stuff electronically is trivial. Howard's print publisher gets big bucks, some of them deservedly, for the risk of printing and distributing X copies. The publisher has to hire printers, print and bind books, ship them all over creation, then end up with perhaps 50% of them left over, because bookselling is among the least predictable of businesses.

IP In An Age Of Infinite Reproducibility: It's The Relationship

In contrast, by distributing his intellectual product himself and doing it electronically, Howard could cut the cost of publishing to essentially nothing. And that is just what Howard is doing with his Web site. He's not only making available his "Tomorrow" columns, he's giving away, as an experiment, his most recent books. Intentionally or not, Howard is following a prescription laid down by info industry guru Esther Dyson, who last year suggested in her newsletter *Release 1.0* that the ease of reproducing digital works—really, their inability to prevent others from copying their creative products—will lead creators to essentially give away their work in order to create "relationships" with their audience. The real money, Dyson says, will come from customized products and personal services between creators and customers, not in the trivial copying of a static work.

"Not only is it easy for individuals to make duplicates of many works or to reuse their content in new works, but the physical manifestation of content is almost irrelevant," Dyson says. "Controlling copies (once created by the author or by a third party) becomes a complex challenge. You can either control something very tightly, limiting distribution to a small, trusted group, or you can rest assured that eventually your product will find its way to a large nonpaying audience—if anyone cares to have it in the first place.

"Only by attracting broad attention can an artist or creator hope to attract high payment for copies. Thus, on the net, the creators give first performances or books (or whatever) away widely in hopes of recouping with subsequent works.... The trick is to control not the copies of your work but instead a relationship with the customers—subscriptions or membership. And that's often what the customers want, because they see it as an assurance of a continuing supply of reliable, timely content."

I like the idea of subscribing to creators. Why not pay Howard $X directly—in effect a subscription to Howard Rheingold—and he emails me everything he writes everywhere for the year? Let's say that figure is $35 per year, about what a magazine subscription would cost, a magazine that I might spend two or three hours per month reading. Let's further say that for my bucks Howard deigns to answer my email when I have an occasional question.

For the $1000 a year I spend on print media, I could have thirty such writers working for me directly. And Howard? Let's say he gets three thousand others worldwide who like him as much as I do. That's $105,000 a year, which translates as a living in my book, and he doesn't have to split it with anyone. He doesn't have to sell fifty thousand copies of a $25 book of which he gets to keep maybe $2.50. He can make about the same money with a client base about one order of magnitude smaller. And he knows who his customers are. If he can get fifty thousand readers to subscribe (and I'd bet more than that purchased Howard's last book) he can cut the price to $25 and walk off with $1.25 million and not have to deal with a publisher.

Nice Theory. Does It Work?

Is there any evidence such a scheme might work?

Yes, in fact, there is, although it requires that you follow along with some interesting math. In 1991, the *Dallas Times Herald* was purchased and closed by its competitor, the *Dallas Morning News*. The *Times Herald's* popular sports columnist, Skip Bayless, was suddenly out of work, with no employer. A dozen newspapers in other cities wanted him, but he would have to relocate.

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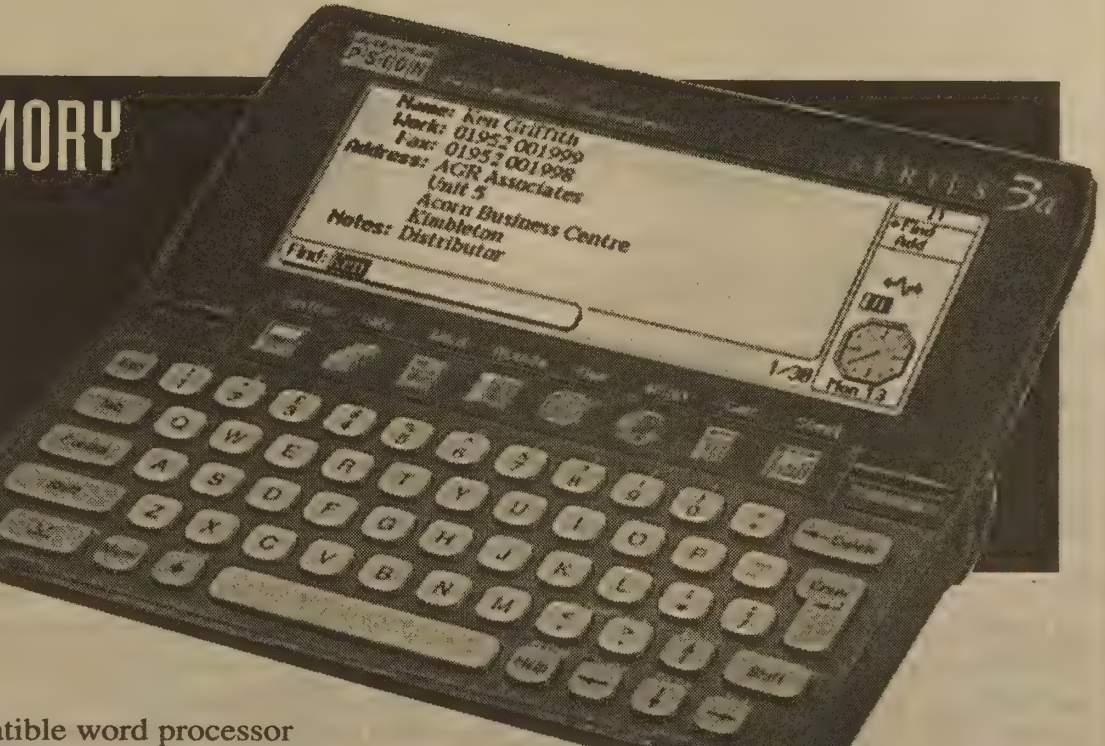
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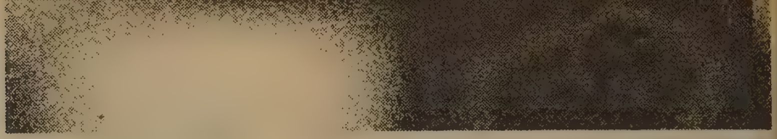

Direct Publishing On The Net ... *continued*

Bayless', readers convinced him that they would pay $99 a year fo Bayless to write his column three times per week and fax it to them. Two hundred of them signed up in the first few weeks. The idea grew and evolved. Today, *The Insider*, two slim pages of distilled opinion about Dallas sports teams, is published via fax and email. Bayless's publisher and partner, David Vaughn, is close-mouthed about circulation ("We have over twenty thousand readers"—newspaper code for probably something like seven thousand paid subscribers). But he assures me that Skip Bayless, who has now been joined by eight other writers on *The Insider*, can support himself handsomely from *The Insider* alone, even though its circulation is only one-fiftieth of the newspaper he left.

What changed? Distribution went from physical to electronic. And the number of employees dropped like a rock. Instead of needing a staff of eight hundred to support two hundred writers—the typical newspaper/magazine breakdown—the equation is now reversed: *The Insider's* eight reporters now publish with a support staff of just four full-time employees. That means there's a whole lot more money left for the creators. The key, says Vaughn, is for creators to make a mental adjustment. "They have to become quasi-entrepreneurs," he says, willing to risk the adventure of a new way of communicating with readers.

> The *Insiders* eight reporters now publish with a support staff of just four full-time employees. That means there's a whole lot more money left for the creators.

The Insider, to my way of thinking, is an important indication that new electronic media can dramatically rewrite the economics of creation. Bu *The Insider*, in my opinion, is just an intermediate step: Bayless and the other writers still work for a publisher, and they share the revenue with others.

Future Possibilities

I'd like to see the concept taken to its logical extreme: writers engaged i direct transactions with their readers. I tried out this idea in a recent discussion in the Inquiry conference on The River (telnet: *river.org*). I got fast thumbs-up from neurophysiologist Bill Calvin, author of eight bestselling books on the brain and evolution. Like Howard, Bill now gives awa much of his work on his Web site (*http://weber.u washington.edu/~wcalvin/*).

Says Bill: "The software to do it is already here, e.g., Netscape's serve software that HotWired uses for usernames and passwords. And you're no limited to HTML layout but can go to Adobe and distribute the Acroba reader free. Given the stampede to SLIP/PPP this year, everything is i place to make this happen. All we need is a good role model."

Who might make a good role model? I sent Howard Rheingold an abbreviated sketch of this plan. From Geneva he wired back, "I'm working on i If I can aggregate a sufficiently large audience for my Web page, I woul love to communicate directly with my readers and cut the publishers o of the loop. It is not clear yet whether I can get enough people to pay m $1–$2 a month or whether I will need advertising, but I am essentially giving away my book, at the tune of about one thousand copies a month, t build a relationship with my audience. Stay tuned!" ■

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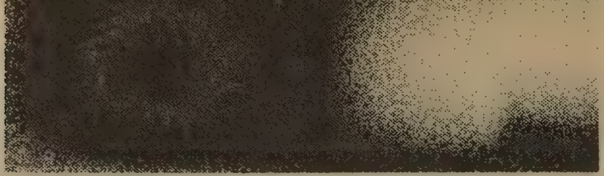

Is Software Patentable?

New Guidelines From The Patent Office

Imagine that you own a small software company. You've just written a new piece of software that may finally put your company on the map. Fame and fortune loom. But you are worried. You put a lot of time and money into developing this product. What if some other company copies your software? What if someone else comes up with your idea? What if one of your employees takes the code and jumps ship. You've heard that software isn't patentable. You've heard that it is. What kind of intellectual property protection is available for software?

Intellectual property protection is available for software in three basic flavors: patents, copyrights, and trade secrets. This article only discusses the first flavor, although the last two certainly are available options. While you can (and should) obtain both patent protection and copyright protection for software, patent protection and trade secret protection are generally not compatible.

The Basics Of Patent Law

Certain aspects of patent law apply to all types of inventions, including software. A patent gives its owner the right to exclude others from making, using, or selling the patented invention for a set period of time. This period of time used to be seventeen years. This year, the law was changed so that issued patents have a lifespan of twenty years from the date that the patent application is filed.

The tests for whether an invention is patentable are the same, no matter what the nature of the invention. For something to be patentable, it must be "useful," "novel," and "nonobvious." In addition, an invention must fall into at least one of several "statutory classes." These classes are: a process, a machine, an article of manufacture, or a composition of matter.

Over the years, people have tried to patent various things that do not fall into these statutory classes. For example, objects found in nature, such as a rock or a naturally occurring plant, cannot be patented. Similarly, abstract ideas and laws of nature cannot be patented. For example, the equation $E=mc^2$ is merely an equation and does not fall into any of the statutory classes. This does not mean that someone couldn't patent a process, machine, article of manufacture, or composition of matter that somehow uses or relies on the equation $E=mc^2$. The equation itself, however, cannot be patented.

YOU'VE HEARD THAT SOFTWARE ISN'T PATENTABLE.

YOU'VE HEARD THAT IT IS.

WHAT KIND OF INTELLECTUAL PROPERTY PROTECTION IS AVAILABLE FOR SOFTWARE?

In recent years, the Patent Office has been trying to determine exactly how to deal with software. The Office hired computer scientists as patent examiners and started improving its database of software prior art. Courts have found that mathematical algorithms cannot be patented. Until recently, Patent Office employees (aka "examiners") used a rather convoluted test, called the Freeman-Walter-Abele test (named after three court cases), to determine whether an invention was a mathematical algorithm and, therefore, not patentable. The test for whether a particular computer program constituted patentable subject matter, however, remained difficult to apply and to understand.

The Patent Office To The Rescue

This summer, the Patent Office published proposed guidelines for its examiners to help them examine computer-implemented patent applications. The text of the guidelines can be found at *http://www.uspto.gov* . These guidelines were developed after months of internal discussion and public hearings (one of which was held in the Bay Area). When this article was written, the guidelines were not final yet. The period of comment closed on September 22. Eventually, a summary of the public comments, along with a summary of the court cases upon which the guidelines

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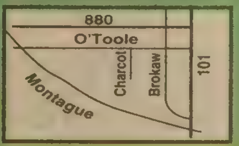

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are based will be available from the Patent Office's Web site.

What do the guidelines say? First, they list three types of computer-related inventions that the Patent Office has decided qualify as statutory subject matter. To quote the guidelines:

i) A computer or other programmable apparatus whose actions are directed by a computer program or other forms of software is a statutory machine.

ii) A computer-readable memory that can be used to direct a computer to function in a particular manner when used by the computer is a statutory article of manufacture.

iii) A series of specific operational steps to be performed on or with the aid of a computer is a statutory process.

Although it has been possible to patent certain types of software for years, the new guidelines from the Patent Office should make the application process easier. Before, each software-related invention was scrutinized under the Patent Office's Freeman-Walter-Abele test. Now, it is clear that the "statutory machine" invention category can include a computer program being executed by a computer. Similarly, it is clear that the "process" invention category can include a process executed by a computer program.

A patented invention is defined in a portion of the patent document called the "claims." It should be possible to claim most software inventions so that they fall within one or more of these statutory classes. The guidelines relating to "articles of manufacture" are interesting and have some far-reaching repercussions for software manufacturers, as discussed below.

In addition to spelling out what is statutory subject matter, the guidelines specify some types of computer-related inventions that are not statutory subject matter. Things that are not statutory subject matter (and therefore cannot be patented) include:

i) a compilation or arrangement of data, independent of any physical element;

ii) a known machine-readable storage medium that is encoded with data representing creative or artistic expression, such as a work of music, art, or literature;

iii) a "data structure" independent of any physical element, i.e., not as implemented on a physical component such as a computer-readable memory to render that component capable of causing a computer to operate in a particular manner; and

iv) a process that does nothing more than implement abstract ideas or concepts, such as a proces consisting solely of the steps a person would follow in solving a mathematical problem.

The guidelines state that inventions claimed in these forms are indistinguishable from abstract ideas, laws of nature, and natural phenomena. For example, part (i) indicates that a person cannot patent the contents of a database. On the other hand, a computer program that uses a database to perform some process probably would be statutory subject matter and could be patented, assuming that is was novel, useful, and nonobvious. Similarly, under part (ii) a person cannot patent a CD-ROM of songs that he composed. This is different, however, from patenting a physical process or apparatus that stores data onto a CD-ROM. Part (ii) does not preclude, for example, getting a patent for a novel, useful, and nonobvious invention relating to CD storage technology.

Part (iii) is somewhat more ambiguous. In its purest form, a data structure is just a concept—boxes and arrows drawn on a piece of paper, an idea floating around in space. While part (iii) suggests that you can't patent the concept of a data structure, court cases say that it is sometimes possible to patent a data structure stored in a physical element, such as the memory of a computer. Subsequent developments in the Patent Office may clarify this point.

Under part (iv), a process that only implements abstract ideas or concepts is not patentable. The guidelines give the example that a process for solving a mathematical problem (presumably a process performed by a human being) is not patentable. Part (i) of the "things that are patentable" list, however, seems to indicate that a "series of specific operational steps to be performed on or with the aid of a computer" is patentable. It seems that the Patent Office considers, for example, a computer program that does nothing but solve a mathematical equation to be patentable subject matter. Possibly, the discussion of case law that the Patent Office has promised will further clarify this point.

Software As An Article Of Manufacture

Part (ii) of the "things that are patentable" list states that software stored on a computer-readable memory, such as a CD-ROM or floppy disk, can be patented as an article of manufacture. This position represents a flip-flop by the Patent Office, which has previously refused to grant patents for "software in a memory." The rationale behind the Patent Office's refusal to grant such patents is as follows: Software that is just sitting there in a memory or on a CD-ROM and that is not being executed by a computer is nothing but ones and zeroes. It's not a process (it's not doing anything); it's not a machine (ditto); and it's not a composition of matter (it's just bits). While the memory itself may be an article of manufacture, it probably isn't novel and nonobvious until you consider the bits stored on it. Patenting the bits stored in a memory, however, according to the Patent Office's former logic, would be too much like patenting "words in a book" or "music on a CD-ROM," which are not allowed, since these don't fit into any statutory class.

Why would a person want to patent software as an article of manufacture, rather than as a machine or as a process? The quick answer is that it extends your patent rights to people who don't actually execute your patented software. Imagine that you are a software manufacturer. You make software, which is distributed to your customers on CD-ROM. You went to a lot of time and effort to develop and market this software. If Company B is selling software that is just like your software, you want to be able to stop Company B from making and selling your patented invention. If your patent only covers a process and a machine, however, you have a problem. All that Company B does is sell CD-ROMs containing software. They don't run the software. Therefore, Company B does not perform the patented process or implement the patented machine and Company B does not infringe your patent. (It's true that Company B may be contributing to the infringement by others or inducing others to infringe, but for reasons we won't go into here, this is harder to prove.)

Of course, there are people who are infringing your patent—the customers who buy the software. Whenever Company B's customers receive their CD-ROM, they install and run the software, thus creating the patented machine or practicing the patented process. I don't think I am telling you anything new if I tell you that it's not a good idea to sue customers, even other people's customers. They are either the people

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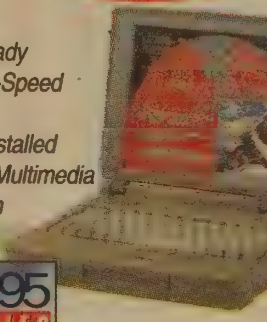

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950N	Pentium™/75	8MB	500MB	10.4" Dual Scan	$2598.
950N	Pentium™/75	8MB	800MB	10.4" Dual Scan	$2798.
950N	Pentium™/75	8MB	1.2GB	10.4" Dual Scan	$3248.
950N	Pentium™/75	8MB	800MB	10.4" Active Clr	$3798.
950N	Pentium™/75	8MB	1.2GB	10.4" Active Clr	$4198.

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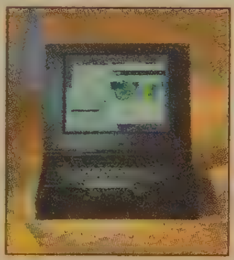
T1910CS	486SX/33	4MB	200MB	9.5" Dual Scan	$1398.
T1950CS	486DX2/40	4MB	200MB	9.5" Dual Scan	$1448.
T1950CT	486DX2/40	4MB	200MB	8.4" Active Clr	$1798.
T1960CS	486DX2/50	4MB	320MB	9.5" Dual Scan	$1598.
T1960CT	486DX2/50	4MB	320MB	8.4" Active Clr	$1998.
T2105	486DX2/50	4MB	250MB	9.5" Mono	$1098.
T2105CS	486DX2/50	4MB	330MB	10.4" Dual Scan	$1698.
T2155CDS	486DX4/75	4MB	520MB	10.4" Dual Scan	$2598.
T2155CDT	486DX4/75	8MB	520MB	10.4" Active Clr	$3298.
T2400CS	486DX2/50	4MB	250MB	9.5" Dual Scan	$1598.
T2400CT	486DX2/50	8MB	250MB	8.4" Active Clr	$1798.
T2450CT	486DX4/75	8MB	320MB	9.5" Active Clr	$1998.
T3400CT	486SX/33	4MB	120MB	8.4" Active Clr	$1698.
T3400CT	486SX/33	4MB	250MB	8.4" Active Clr	$1798.
T3600CT	486DX2/50	8MB	250MB	8.4" Active Clr	$2498.
T3600CT	486DX2/50	8MB	500MB	8.4" Active Clr	$2698.
T4800CT	486DX4/75	8MB	500MB	9.5" Active Clr	$2698.
T4850CT	486DX4/75	8MB	500MB	10.4" Active Clr	$3198.
T4850CT	486DX4/75	8MB	810MB	10.4" Active Clr	$3298.
T4900CT	Pentium™/75	8MB	810MB	10.4" Active Clr	$4498.



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5000CTS	Pentium™/90	16MB	1.0GB	10.4" SVGA TFT	$6198.
4000C	486DX4/100	4MB	520MB	10.3" Dual Scan	$2498.
4000CT	486DX4/100	4MB	520MB	10.4" Active Clr	$3098.
4000CT	486DX4/100	8MB	810MB	10.4" Active Clr	$3398.
4000C	486DX4/100	8MB	810MB	10.3" Dual Scan	$2798.

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- 16 Bit Sound Blaster Card
- 20 Watt Speakers
- Keyboard/Mouse/Mouse Pad
- 14" SVGA .28 NI Monitor
- 14,000 Fax/Data Modem (America On-Line & Fax Software)
- Windows 95

Pentium 120/133
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Windows 95 Workstation #1
486DX2-80MHz 8MB/650MB

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Windows 95 Workstation #2
486DX4-100MHz 8MB/650MB

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- Built-in Hi-Speed IDE/10 (2S, 1P, 1G)
- Mini Tower case w230W PS
- 1MB PCI SVGA card
- 1.44MB Floppy Drive
- Quad (4X) Speed CD ROM Drive
- 16 Bit Sound Blaster Card
- 20 Watt Speakers
- Keyboard/Mouse/Mouse Pad
- 14" SVGA .28 NI Monitor
- 14,000 Fax/Data Modem (America On-Line & Fax Software)
- DOS 6.22 and Windows 95

Pentium 90/100
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16MB RAM	+ $248

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Pentium 75 256K Cache	$328
Pentium 90/100 256K Cache	$398/428
Pentium 120/133 256K Cache	$528/678

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540MB Hard Drive	$158
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1GB Hard Drive	$215

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14" .28 SVGA NI Green	$229
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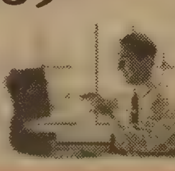

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who actually buy your product or who might potentially buy your product and they are not people you want to have mad at you.

So, what do you do? If your patent includes claims for an article of manufacture—"software in a memory"—Company B is directly infringing these claims when it makes a CD ROM with software on it. It doesn't have to execute the software in order to infringe your claims. All it has to do is put the infringing software on the CD-ROM. This is good. You can protect your economic interest in all that R&D money without having to antagonize your customers or potential customers. It's easy to see why software manufacturers want to get patents that claim their invention in as many different ways as possible, including article of manufacture claims.

What Does It All Mean

Software has been patentable for a number of years. Specific rules about how to claim software and some specifics about which sub-types of software can be patented have changed frequently, however. At times, the Patent Office and the courts have disagreed about what types of software inventions constitute statutory subject matter.

The new guidelines specify what software inventions are patentable. They also specify what types of software inventions can be considered a machine, a process, and an article of manufacture. The guidelines should simplify the rules that are followed by examiners in determining patentability.

Keep in mind that this article deals with US law only. Patents issued in the United States generally are only effective against infringers in the United States. Each country has its own patent laws affecting how patents are granted and enforced, although certain regions such as Europe have unified their patent laws somewhat. While foreign patent protection is outside the scope of this article, the US is not the only country that is grappling with software patents. Hopefully, the new guidelines will simplify life for software developers, at least in the US. ■

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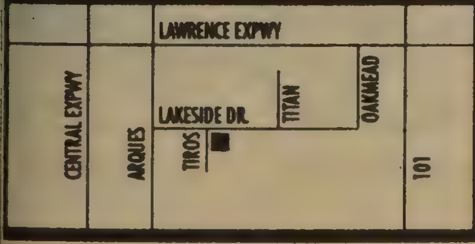

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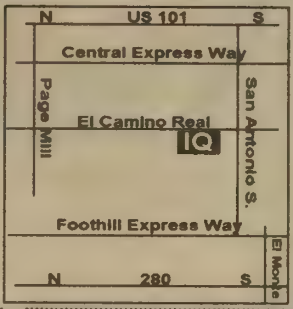

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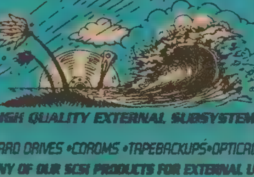

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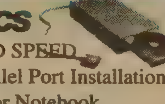

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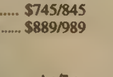

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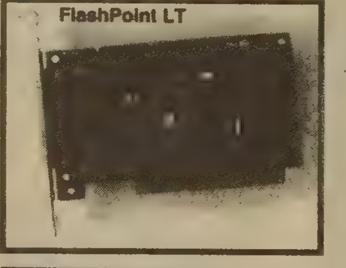

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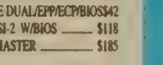

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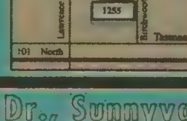

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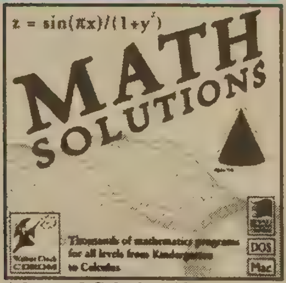
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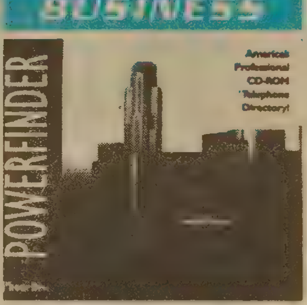

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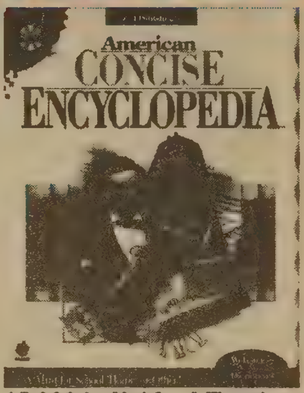

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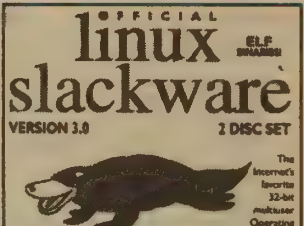

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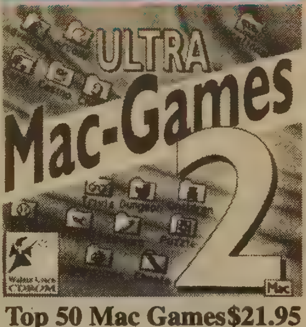

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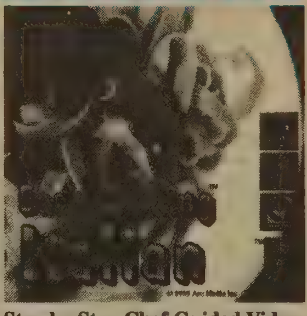

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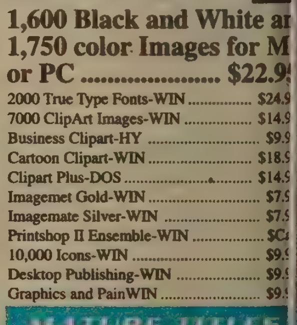

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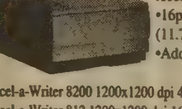

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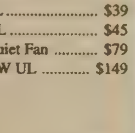

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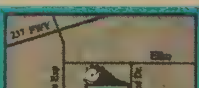

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Keeping Tabs On The Ephemeral

The Varieties Of Intellectual Property Experience

Recently we spoke to several people involved in various aspects of the computer industry and asked them what they felt were the central issues in intellectual property, currently a hot topic with the growth of the Internet and other online services and the digital nature of an increasing number of products and commerce. The opinions expressed ranged from a belief in the need to control unauthorized copying to "give it away and make money other ways" to it is more important to have customers than patents, with other issues raised as well. We hope this serves to illuminate at least some of the debate taking place.

—John Downen

Kaye Caldwell

Software Industry Coalition
kaye@ix.netcom.com

Some of the central issues at this point include:

Protection of intellectual property on the NII/GII: Strong encryption is necessary to provide protection for intellectual property as it traverses the Internet, however the government's policy is to disallow the export of strong encryption, to hinder its use internationally, and to threaten its use even domestically.

There is one area which I think has vast potential for hindering the development of electronic commerce for intellectual property products. That area is state tax laws. Electronically delivered products are not geography-aware; there is no knowledge of the state of delivery. Yet many states believe they can now, or will soon be able to, require sellers to collect sales taxes based on the state to which delivery is made.

An even worse situation is that some states are beginning to claim that the mere presence of licensed intellectual property in their state is enough to create the obligation to pay income taxes to that state. For software, this is a big issue and for other forms of electronic intellectual property, such as books, video, and music, where those industries are looking at a licensing mechanism for distribution, these states will also be a big problem. While the sale of products is protected by federal law from such behavior on the part of the states, the states claim that law does not also protect end-user licensing of those very same products.

Finally, the lack of legal protection for the infrastructure providers (online service providers) from claims of unknowing libel, patent infringement, and copyright infringement threatens the viability of electronic commerce for electronically delivered products.

Mark Radcliffe

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The first hot issue is one of how does intellectual property get used on the Internet? The problem is that the Internet is by its nature global, whereas intellectual property laws are territorial. They vary from country to country—anything from the scope of protection (for example, in some countries software has a much narrower scope of protection than it does in the United States) to the term of protection (for example, in Europe copyrights go for the life of the author plus seventy years; in the United States it's onl the life of the author plus fifty years, althoug there are some other rules for corporations) And how do you determine where an infringement takes place if you have a piece of softwar sitting on a server in the UK and somebod from Russia downloads it through a server i Finland. Is the infringement taking place in th UK, in Finland, in Russia, or in all three?

The second issue which is going to be difficul is the interaction between domain names an trademarks. Domain names are obviously you address on the Internet; trademarks are wha you use to describe the source or quality o goods. The problem is, there is only one domai name worldwide under the "com" domain pe commercial, whereas there may be many peopl using that particular word as a trademark. S you may have an Adobe which sells software i the United States, and, at least under the curren system, you could theoretically have an Adob that makes farm equipment and a differen Adobe company that sells software in Australi ,and their trademark rights would not conflict a long as they don't enter one another's marke but on the Internet there's only one *adobe.com*

Clever Intellectual Property Title...continued

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The problems arise from a number of different areas. One is that the world is shrinking, and so some of the challenges will be to harmonize the various ways of protecting intellectual property around the world. Presently, there are disparities around the world, and that's getting in our way because of the realities of commerce, which is now global. It's being helped by such things as GATT and NAFTA, but they really just provide a certain infrastructure; they don't complete the job. There'll be vested interests and there'll be regional interests and there'll be national interests and all those will get in the way, but the push is definitely toward a harmonized approach, not to say a uniform but a harmonized approach.

There's another thing, and that is that in the early '70s, when the Supreme Court first had a chance to look at software, they had a bad case before them and they didn't know what to do with it and they just said some garbage; but the fact of the matter was that it did not appear that there was patent protection for software. So when they had a chance, they didn't say to the Patent Office, "You guys better get smart here. You better start finding out the prior art, and you'd better train yourselves how to examine a patent application for a software-related invention." So now, twenty years later, there's all this hue and cry in the industry, "We shouldn't have patents for software because it's a bad thing." Now it turns out it's neither bad nor good; it's just that the Patent Office is not in a strong position to examine applications and doesn't know what the prior art is or isn't very skillful in getting hold of the prior art. So we're playing catch-up ball here with a big industry.

That's led a lot of people to feel that patents were inappropriate—laypeople. As a result, there has been some stretching of other forms of protection beyond where they should have been to cover the void that in other sciences would be covered by patents. So now what we get is ridiculous findings by courts in which they've had to pretend something in order to reach the result that everybody knew was the appropriate result under copyright, when, if it had been patented there would have been no event. And so my own feeling is that it's wise to have a strong patent capability for those situations in which it makes sense [?].

Mark Traphagen

Intellectual Property Counsel, Software Publishers Association
(202)452-1600

First of all, there's a pressing question about online service provider liability over telecommunications networks. At least under US law there's court doctrine that may hold service providers liable for copyright infringement they didn't know about. That's long been thought to be fair and has worked well in other industries, and our association is studying the issue now. It's likely to be a big issue in the legislation pending before Congress, which would make some changes.

The second issue has to do with the doctrine of fair use. Right now we've been working very hard, in a conference of schools and libraries, to figure out what kind of safe haven from copyright infringement will be available for schools and libraries. A lot of their plans for the future call for using telecommunications technology to make copyrighted works available to people in their homes, in their workplaces, all without having to be in the classroom or drive to the library. Certainly that's a very good social objective, but there's a very serious question about whether that widespread availability is going to undermine the market for computer programs and thus discourage investment in creating new ones.

The third issue is, what are we going to do internationally to handle the problems of transmission? Right now the US government and the European Commission seem to be tackling that problem; but we still have the rest of the world to worry about, and they don't respect copyright as strongly. For example, in China, when you take a country that has a 98% piracy rate and you add listservers and Web browsers and TurboGophers and Fetch applications, what kind of an infringement problem is the software industry going to have?

Those are all legal problems. A business-related problem is going to be figuring out how do we sell software in the future? As the networks come online, are we going to be facing a situation where people don't sell a full copy anymore but just charge for use? Is software going to be able to be downloaded without permission and the user will be responsible for paying a fee to a central collecting agency, which will then distribute the money to publishers? Or will the software be given away for free and we'll make our living off the services, as Esther Dyson says; which is fine as long as you're a comparative celebrity and your individual personality is sought after for its opinions and so forth. But for most publishers and developers that puts them on a treadmill, which is that the amount of money you can make is limited by the number of hours you can stay awake every day. And that discourages the kind of investment and development lead time that we're seeing is needed to produce new technologies and software.

John Gilmore

Cygnus
Cofounder, Electronic Frontier Foundation
Director, Cygus Support
(415)903-1400

The central issue is how to make a market for intellectual work without stifling intellectual ferment and creativity.

Clearly there are problems in maintaining a legal regime which diverges further and further from the physical world (i.e. defining copying as a heinous act, while it gets cheaper and easier and more automatic every year). And there are serious challenges to free expression, too; as John Perry Barlow says, "When your principal item of commerce is indistinguishable from speech, you are going to have problems maintaining freedom of speech."

My own answer has been to publish my works widely, for unrestricted copying, and make money in other ways. For example, by selling services related to my works. I figure this gets me some experience at living in the next century. Personal service will always be rewarded; it requires visible human labor. Making copies of strings of bits will not always be rewarded, since it doesn't.

As for how society will figure this out, I haven't the faintest idea. My guess is that individuals will change their behaviors more quickly than institutions and governments, and the institutions will be dragged along, kicking and screaming and making as much trouble as possible. There's lots more widespread trouble to come.

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Win 95

Déjà Vu All Over Again

BMUG • By David Morgenstern

Let's stroll down memory lane to the not-so-long-ago time when Microsoft's DOS operating system equaled productivity to information managers. The Mac, with its graphical user interface, was the oddball, while everyone crowed over the larger installed base of "real" software for business applications.

The Mac, with its easy setup and highly integrated desktop, is still balked in business by ancient impressions and earlier market conditions. Somehow micro-mavens ignore the fact that times have changed.

Although Windows 95 is out on the street, there's a dearth of 32-bit applications to run on it. This was the Mac's situation at its introduction a decade ago. Nowadays, the Mac has tons of 680x0 and PowerPC-native software as well as Mac flavors of the major cross-platform biz candidates. And there are plenty of vertical-market applications for everything from law offices to dog breeding. This is night and day from the era of the Mac Plus or Mac II.

Even the criticisms of the Mac clone market compare its early daze to a decade-long process in the Intel-standard PC market. Six months or a year seems like ages in this helter-skelter industry, but it's really not to companies new to motherboard engineering. Sigh.

However, I feel great after a BMUG meeting, talking with the Peanut Gallery over the good ol' days of the Mac. Hey, those days are today! Onward.

A Window On The Macintosh

A recent survey on the cost of technical support in business was released in October by the Gartner Group Consulting Services, based in Orlando, Florida. The report contradicts the popular wisdom held by information services managers that supporting the Mac is an extra burden to businesses.

The study said there are no extra costs for companies supporting both Macs and Windows-based PCs instead of just using Windows machines alone. Even better, the Mac is easier to support than the other systems!

The report showed that a site with more Macs has lower technical support costs than those with fewer—duh! It said the costs for Macintosh support are approximately 25% less than those for Windows.

There are some caveats. The research was done in the first half of 1995, before the release of Windows 95. This may or may not make any difference in future studies, since moving to an upgrade for almost any hardware or software requires an adjustment period. Win 95 is leading businesses to boost hardware platforms and application software; this leads to a double cost, since there's additional support needed for installation and tweaks.

In other Windows 95 news, Sun Microsystems' boss, Scott McNealy, said in October that the new Windows operating system is a great gift to give a kid for Christmas, because it will keep him or her fascinated for months trying to get it running and trying to figure out how to use it. In the *Investor's Business Daily*, McNealy said people confuse computer activity with corporate output and productivity. He called Windows 95 a "personal activity generator."

No matter how it pains me to admit it, this is obviously a cheap shot. The Mac is easier to set up, maintain, and use than either a Sun or a Windows machine, but it often takes some feeding and care, as evidenced by the questions needing answers at BMUG meetings. We are still in the beginning stage of the personal computer, and they do not have the reliability and native ease-of-use found in toasters and radios.

McNealy's shots remind me of another infamous quote about interfaces. About 1988 or 1989, Randall Fields, the husband of cookie magnate Mrs. Fields, flamed all graphic user interfaces at the Portable Computing Expo in New York.

He said, "The Macintosh must have been designed by the Soviet Union to limit American productivity." He hated icons, fonts, WYSIWYG displays, and the whole kit and caboodle. He also hated the introduction of Windows 1.0 and said that Windows would "take our economy down the tubes."

Not! These farsighted comments have been proven totally wrong; graphical user interface operating systems have led to a revolution in publishing, digital video, the World Wide Web, and CD-ROM-based multimedia. As BMUG has stressed over the past ten years, GUI interfaces have, more importantly, brought the power of data processing and information retrieval to a greater number and variety of people. Information and computers need to be the workaday tool of everyone in society, not just a cadre of techno-elites.

Some people seem to have trouble seeing the display for the pixels.

Open The Door And Let Me In?

The use of subliminal images has long been the fodder of science fiction stories. In the golden age of sci-fi, brainy heroes watched movies and were fed complicated texts in flashes, which only registered with the unconscious mind. Fortunately, the fictional characters had an eidetic recall of all of the buried text, which they could quickly use to invent a super weapon and save the day.

In the past couple of decades, movie directors have spliced images such as skulls or mutilated bodies into key emotional moments in films; this was done by William Friedkin in *The Exorcist* as well as in *Jade*, his new film released in October. The images are just a few frames long and are not visible by the eye—until the film is released on video and stop motion can be employed by couch potatoes.

The use of computers in video production makes it easier to insert images into a film. But humans have more than one sense for media producers to subliminally seduce.

Reportedly, Time Warner Interactive Group this fall will release Endorfun, a new computer game by the author of Tetris. According to reports, the game includes a bunch of subliminal audio messages, such as "I expect pleasure and satisfaction," "It's okay for me to have everything I want," "Today I expect the best," "I can do anything," and "I forgive myself completely."

Time Warner reportedly said that the messages improve player's "positive feelings" and get them in the mood to buy the game for their friends and family.

Self-esteem is great, but perhaps the current generation could use a

continued on page 29

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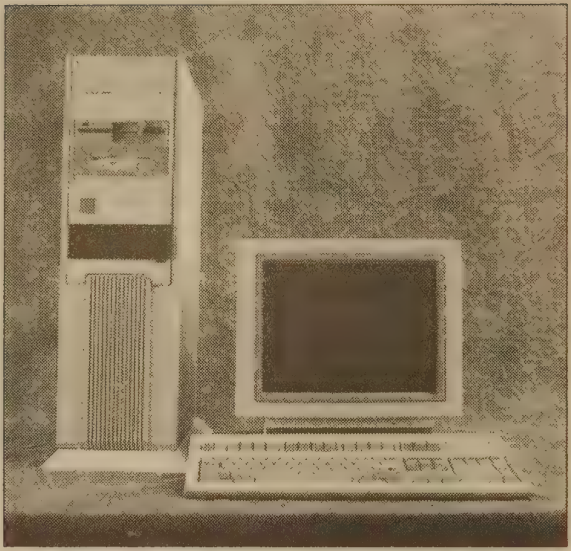

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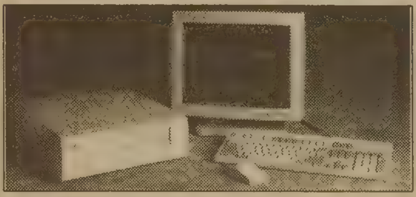

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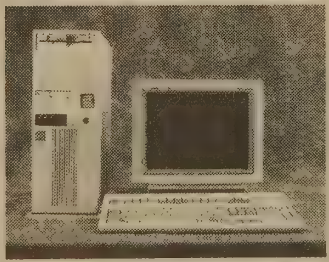

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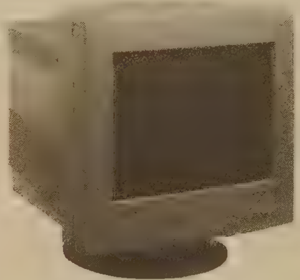

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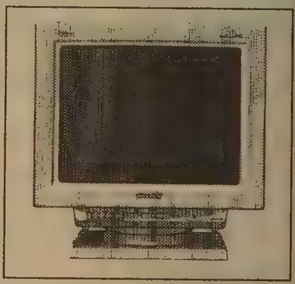

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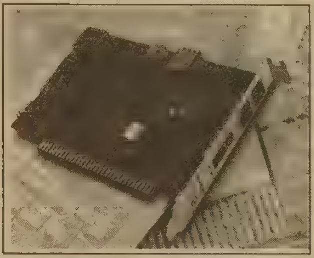

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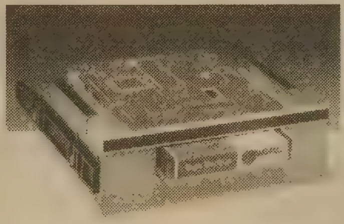

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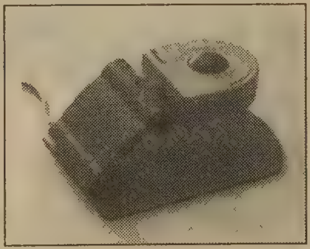

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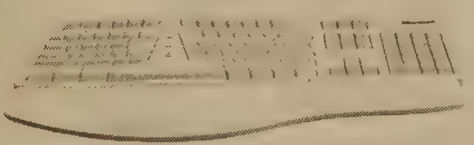

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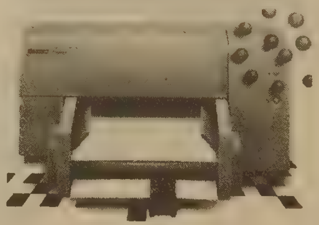

DeskJet 855C
Color Ink Jet

- Up to 7ppm (B/W)
- Up to 3ppm (color)
- Dual I/O for PC or Mac
- 26 scalable fonts

PTA855C **$529**

DeskJet 600C	Color Ink Jet	$ 289.00
DeskJet 660C	Color Ink Jet	369.00
LaserJet 4M+	12ppm, 600dpi, 6MB	1869.00
LaserJet 4MV	16ppm, 600 dpi, 12MB	2699.00
LaserJet 5L	600dpi	479.00
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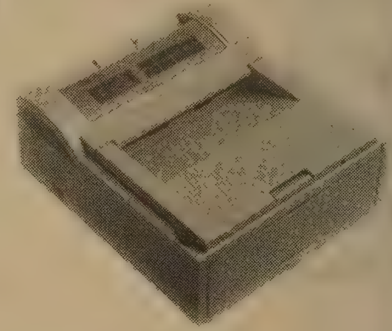
LaserJet 5MP	Mac compatible	969.00

OKIDATA

OL-400e Laser Printer



- 4PPM printing speed
- 300dpi resolution
- 512K RAM
- 5 year printhead warranty
- 100-sheet paper tray
- 44 resident fonts
- Auto switching interface

PC MAGAZINE EDITOR'S CHOICE

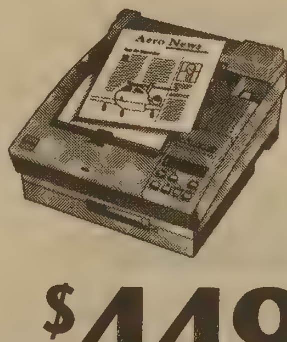
$389

EPSON

ActionLaser 1500
Laser Printer

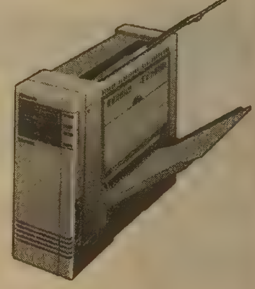
Lower Price!

- 6ppm printing speed
- 300dpi resolution
- 1MB RAM exp to 5MB
- 27 built-in fonts
- 150 sheet paper tray
- Built-in printer sharing
- Optional Postscript upgrade
- Limited 2 year warranty



PTE1500 **$449**

Panasonic Office Automation OA



KX-P5400
Postscript Laser Printer

- 4ppm LED Page printer
- Adobe Postscript Level 2
- 2MB RAM exp to 4MB
- 100-sheet multipurpose tray
- 17 Adobe fonts
- 28 internal bitmap fonts
- 1 year w/ 5 year printhead warranty

Postscript Laser!

PTP5400 **$399**

KX-P4400	PTP4400	$329.00

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- SoundBlaster 16 sound card
- 4X CD ROM Drive
- Stereo speakers
- 11 top selling CD Titles

ADS121 **$269**

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CREATIVE

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- Advanced 20-voice synthesizer
- MIDI interface
- Power amplifier

ADS115 **$89**

SoundBlaster 16 MCD ASP	ADS114AT	**$99.95**
SoundBlaster AWE32	ADS116	**$249.00**

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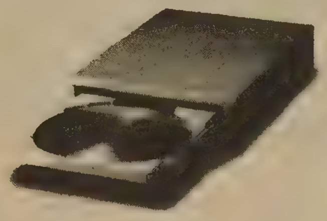

- Teac 6X CD ROM Drive
- Creative Labs Sound Card
- Microsoft software title

ADS260 **$359**

SANYO
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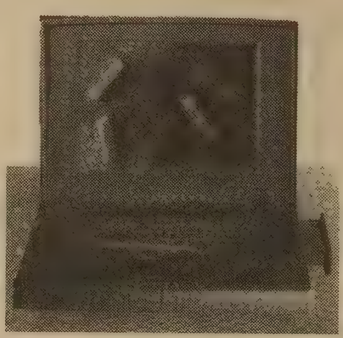

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StepNote P90

- Intel Pentium 90MHz processor
- 8MB RAM expandable to 40MB
- 1MB Video RAM
- 540MB hard drive
- 10.4" TFT active color display
- Multimedia ready

New!

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Other Models Available!

NBV90AX **$2989**

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ActionNote 880C Color Notebook

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- DOS, Windows, ClarisWorks, Compuserve, America Online
- 1 year waranty

Over $550 worth of software

NE880C **$1899**

660C DX2-66, 4/340, DSTN $1599.00
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Megahertz
XJack 2288

- 28,800/28,800 bps modem
- DOS, WIN software
- 5 year warranty

ADC2288X **$259**

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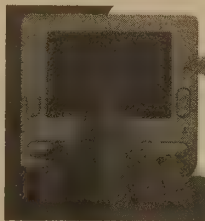
Free Wristrest!



- One finger "touch & top"
- Plug & point w/ standard driver
- Ultra-precise resolution
- 2 programmable buttons
- Serial PS/2 connectors

PMS135 **$66.95**

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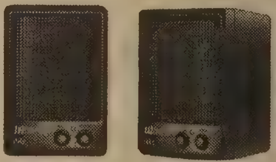
AudioTower Speaker

- 3 1/4" shielded driver
- 8 watt per channel
- Built-in amplifier

ASN001 **$69**

Labtec
SS-100
Amplified Stereo Speakers



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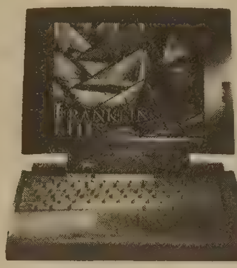


Versa 4000D
Pentium Color

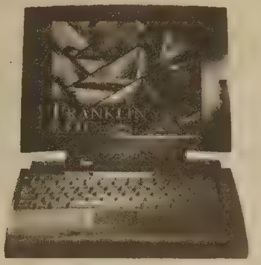
- Pentium 75MHz processor
- 8MB RAM exp to 40MB
- 540MB hard drive
- DSTN Passive color display
- Built-in CD ROM drive
- 16-bit stereo speakers
- Built-in microphone/speakers
- 3 year limited warranty

Built-in CD ROM!

N41402C **$3499**

NEC

New Notebooks!



Versa 2000C

- 486DX4-75 MHz processor
- 8MB RAM expandable to 40MB
- 540MB hard drive
- 9.5" TFT color display
- Windows 95 installed
- Glide point pointing device
- Loads of free software
- 3 year limited warranty

NEW! Windows 95

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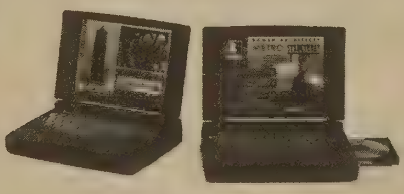
TOSHIBA



Satellite Pro 400 Series

400CS

- Pentium 75MHz processor
- 8MB RAM/810MB HDD
- DTSN Passive display

NT400CS **$3499**

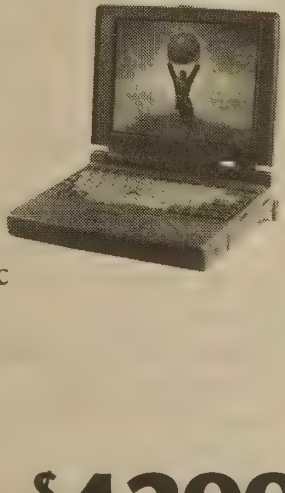
400CDT Multimedia Notebook

- Pentium 75MHz processor
- 8MB RAM/810MB HDD
- 4X CD ROM drive
- TFT Active display

NT400CDT **$4499**

TOSHIBA

PORTÉGÉ 610CT
w/ 90MHz Pentium Processor



- Intel Pentium 90MHz Processor
- 8MB RAM exp to 40MB
- 720MB hard drive
- TFT active color display
- Multimedia ready w/ built-in Mic and speakers
- Accupoint Pointing Device
- Litium Ion Battery Technology
- 3 year limited warranty

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November 9–11, 1995
Palo Alto

This year's conference is an interdisciplinary gathering of chemists, materials scientists, physicists, engineers, computer scientists, and others interested in the field of molecular technology, i.e., control of materials and devices at the molecular level.

The 1995 Feynman Prize in Nanotechnology will be presented at the conference.

*Registration is limited. For further information, call the Foresight Institute at (415)917-1122, or visit the conference Web site (*http://nano/xerox.com/nanotech/nano4.html*).*

Speakers And Topics

Donald Brenner, North Carolina State University: "Simulated Engineering of Nanostructures"
Richard Colton, NRL: "Tip Surface Interactions"
Eric Drexler, Institute for Molecular Manufacturing: "Directions in Nanotechnology"
Elizabeth Enayati, Weil Gotshal & Manges: "Intellectual Property Update"
Bruce Paul Gaber, David C. Turner, and Mary A. Testoff, NRL: "Toward the Molecular Machine Shop—Spatially Controlled Enzymatic Modification of Solid Surfaces"
Stephen L. Gillett, University of Nevada: "Nanotechnology, Pollution Control, and Resources"
William A. Goddard III, Caltech: "Computational Chemistry and Nanotechnology"
Tracy Handel, UC Berkeley: "Protein Design"
Admiral David Jeremiah, USN (Ret.): "Technology Strategies and Alliances, Nanotechnology and Global Security"
Neil Jacobstein, Teknowledge, Institute for Molecular Manufacturing: "Entrepreneuring in Molecular Manufacturing: Lessons From the Computer Industry"
Geoff Leach, Royal Melbourne Institute of Technology: "Advances in Molecular CAD"
Tom McKendree, USC: "Implications of Molecular Nanotechnology Technical Performance Parameters on Previously Defined Space System Architectures"
Ralph Merkle, Xerox PARC: "Design Considerations for an Assembler"
Charles Musgrave, MIT: "Chemical Synthesis of Nanomachinery"
Gernot Pomrenke, ARPA: "Nanoelectronics at ARPA"
Aristides Requicha, USC: "Molecular Robotics"
Rod Ruoff, Molecular Physics Lab, SRI: "Experimental Study of the Mechanical Properties of Nanotubes and Nanorods"
Subhash Saini, NASA Ames: "PetaFLOPS Computing and Computational Nanotechnology"
Paul E. Sheehan and Charles M. Lieber, Harvard: "Nanomachining, Manipulation, and Fabrication by Force Microscopy"
Tanya C. Sienko, National Institute of Science and Technology Policy, Japan: "The Track of Japanese Nanotechnology Efforts: Present, Players, and Possibilities"
Richard Smalley, Rice University: "Nanotechnology at Rice"
J. Fraser Stoddart, U. of Birmingham, UK: "The Art and Science of Self-Assembling Molecular Machines"
David C. Turner, Stephanie L. Shields, Chunyen Chang, Kan Fang, Douglas B. Murphy, NRL: "Patterned Microtubule Assemblies for Kinesin-Based Transport"
Paul S. Weiss et al., Penn State University: "Nanometer-Scale Features and Properties in Self-Assembled Systems"
George Whitesides, Harvard: "Self-Assembly and Nanotechnology"

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M-Tech	
Pentium , Pipline Burst 256K	$245
Pentium, 256K, 8-30pin & 4-72pin	$170
Genysis	
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WinTurbo PCI VRAM 4MB	$410
Matrox	
Millenium PCI 2MB WRAM	$308
Millenium PCI 4MB WRAM	$449
Number 9	
9FX Vision 330 1MB/2MB	$127/170
9FX 531 1MB/2MB	$163/210
9FX 771 2MB/4MB	$270/410
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Adaptec	
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1542/1542CFK SCIS	$167/225
1742/2742A SCSI	$185/295
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3940/3940W w/kit	$325/465

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NEC CDR-511 220ms 600KB/S 4 X Int	$185
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LT-540S 540MB SCSI-2	$190
LT-730S 730MB SCSI-2	$239
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Q34301GPS 4.2GB SCSI-2	$975
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250W Power Supply	$33

Multimedia

Creative	
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Sound Blaster AWE-32 Value	$199
Sound Blaster AWE-32 Retail	$249
Media Vision	
Media Magic 16bit Sound Card	$52
Pro Movie Spectrum	$185

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XV15/XE15/XP15	$425/510/620
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XE21/XP21	$1830/2200
Sony	
15SF/17SF/20SF	$447/815/1790
ViewSonic	
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- Super Mini Tower Case w/250W PS.
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P5-100....$1659

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- 1GB fast IDE Hard Drive.
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- Keytronic 101 Keyboard.
- Microsoft Compatible Mouse.
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- Super Mini Tower Case w/250W PS.
- Windows 95 or DOS 6.22 & Win 3.11

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Power Pentium System
P5-133Mhz

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P5-133Mhz

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- 32MB RAM 72pin 70ns.
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- Creative Lab Sound Blaster 16 IDE.
- 28.8 Fax Modem.
- 1.0GB Fast SCSI-2 Hard Drive.
- Teac 1.44MB.
- Toshiba 4X Speed SCSI CD-ROM.
- 160W 2-way Sterio Speaker.
- Keytronic 101 Keyboard.
- Microsoft Serial Mouse.
- DigiView 17" .28 NI Color Monitor.
- Full Tower Case w/250W PS.
- Windows 95 or DOS 6.22 & Win 3.1
- MS Encarta, Golf, Work and Money.

ASUS Motherboard

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PUBLIC RADIO

Catching The Hi-Tech Wave

Mixing Leading- And Trailing-Edge Technology To Keep Public Radio Alive

By Eric Alan

As the personal computer infiltrates nearly every level of life, it finds uses few designers would've originally imagined—such as playing a critical role in keeping public radio alive.

Indeed, this is the beginning of an extraordinary time of change for public radio, in terms of technology, politics, and money. Technology in particular is advancing so fast that the use of computers will shift rapidly in the imminent months and years—even if it's also true that public radio often exists more on the trailing than cutting edge of technology, and will continue to subsist with computers some nerds would laugh at. Personal computers, and their explosively growing capabilities in connection with the Internet, are already changing radio operations dramatically; and if they don't entirely reshape radio's world by themselves, they certainly will in conjunction with digital cable delivery, direct satellite broadcasts, and other impending technology. These new media forms may not replace traditional broadcast in the short term, or be financially profitable; but to stand idly at the sidelines while the technologies take over is to risk suicide by inaction.

Nowhere are the technological changes for public radio, and the conflict between the cutting and trailing edge, more in evidence than at Jefferson Public Radio, where I work, and at other public radio stations in the Pacific Northwest. (JPR provides alternative programming to the Southern Oregon and Northern California counties which comprise the mythical state of Jefferson: a state which almost became real when a political rebellion gained strength in 1941, only to be preempted by the Japanese attack on Pearl Harbor.) Providing that programming presents technical and economic difficulties which urban stations don't have to contend with. Without computers, the task would be nearly impossible; instead, with the convergence of computers and broadcasting, the basic vehicles by which programming is delivered may change.

This impending convergence, and Jefferson Public Radio's entry into the online world, is already causing a local reevaluation of what a public radio station is and can be. At the West Coast Public Radio Conference in September, JPR Director of Broadcasting Ron Kramer spoke of JPR now viewing itself as "a multimedia information service," and emphasized that both traditional broadcast radio and Internet ventures allow the fulfillment of the JPR mission statement, which is to support the arts, promote citizen participation in government, build tolerant expression of viewpoints, and provide an outlet for discussion of issues facing minority populations.

Cutting-Edge Technology For Public Radio

The primary cause of this reevaluation is JeffNet, an online service which makes JPR one of the first public radio stations nationally, if not the very first, to wholly own its own online system. While JeffNet does not currently support audio transmission, and thus does not duplicate or replace any current radio functions, it does support JPR's mission neatly. Through JeffNet, JPR is already able to provide—along with complete program listings for the radio aspects of the operation—a wide variety of community and arts information, and forums on many topics, including a political forum hosted by syndicated political commentator Russell Sadler, whose forum parallels his talk show on JPR's AM radio stations. JeffNet is also a full Internet access provider, at modem speeds up to 28.8Kbps, or via dedicated SLIP or T-1 lines. Running front-end software that integrates Netscape with other applications such as Eudora for email—linked in such a way that applications can be launched without the traditional bother of having to exit Netscape—JeffNet features highly developed lists of links to World Wide Web sites in numerous areas, including arts, music, literature, environmental issues, government, and more. (The JeffNet home page is not accessible to nonmembers. However, information can be obtained at the Jefferson Public Radio home page, at *http://jeffnet.org/index.html/* .) JeffNet was built around an existing system, originally a spin-off from the Eugene Freenet, based on a 486DX/75 system running the Linux operating system. Major subsequent hardware improvements have been made in RAM capability and number of incoming phone lines. Equally major front-end software improvements have been made, due to a strategic alliance with Project A Software Solutions (*http://jeffnet.org/proja/*), a software firm located in Ashland, Oregon,

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Intel P90,Middle tower 250W, Asus 54TP4 M/B,
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ATI Mach64 2MB DRAM,1.44MB FDD,
Internal Modem 14.4kbps, 101KB,101 K/B, MS Mouse,
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Internet One-touch PC for English Cru

Intel P100,Middle tower 250W, Asus 54TP4 M/B, 16MB SIMM,
256kB SRAM,WD 1.2GB IDE HDD, ATI Mach64 2MB DRAM
Mitsumi x4CDROM,1.44MB FDD, Internal Modem 28.8kbps,
101KB,101 K/B, MS Mouse, (Windows 95 +$100).

サイバー戦艦インターネット007 $3,380.00

Internet One-touch PC for Japanese Cruser 日本語でPCしませんか？

Intel P133,Middle tower 250W, Asus 55TP4X M/B,32MB EDO SIMM,256kB Burst SRAM,
WD 1.2GB IDE HDD, ATI Mach64 2MB VRAM,Mitsumi x4CDROM,1.44MB FDD,
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which also provides technical support and Web page design services.

Although JeffNet and JPR do not have online audio transmission yet, Real Audio (at *http://www.realaudio.com/*) already carries audio-on-demand files of such National Public Radio programs as *All Things Considered* and *Morning Edition* (albeit a day behind, to ease stations' fears of competition). ABC Radio and commercial stations such as KPIG—near Watsonville, CA—have their signal carried live on the Internet through Real Audio, also, though the sound quality is imperfect yet.

Other providers, such as Xing Technologies (*http://www.xingtech.com/*), have assisted in other radio projects involving the Internet. These projects offer great promise for, among other things, the replacement of notoriously unreliable microwave and phone links to remote locations, used to relay remote sound for broadcast, to and from studios and transmitters. For a network such as JPR, which is in a mountainous region and currently must rely heavily on microwave connections, the potential advantage and cost savings are enormous.

THESE NEW MEDIA FORMS MAY NOT REPLACE TRADITIONAL BROADCAST IN THE SHORT TERM, OR BE FINANCIALLY PROFITABLE; BUT TO STAND IDLY AT THE SIDELINES WHILE THE TECHNOLOGIES TAKE OVER IS TO RISK SUICIDE BY INACTION.

Increased regional cooperation between stations seems to be a key component in the effort for survival, too, and the shipping via the net of news stories and other broadcast-quality audio feeds and complete programs between stations is an increasing reality. While many public stations are not technologically capable of it quite yet, some are, and many more imminently will be. Northwest Public Radio, which has station transmitters and production facilities in Washington (Richland and Pullman) and Idaho (Moscow), and a signal which reaches across pieces of Washington, Oregon, and Idaho, already uses Ethernet connections between the sites to ship audio feeds for newscasts. Soon, with the enthusiastic leadership of news director Dale Harrison, the region's other stations may cooperatively share audio news feeds on a wider basis—a particularly attractive idea in wake of the financial collapse of *Northwest Journal*, a collaboratively produced regional daily news program.

The power that the PC offers for internal operations, combined with the above, is staggering. For a tiny fraction of the price of a traditional production studio, Northwest Public Radio not only connected their facilities, but also converted their production studios to a digital PC-based system. Needing no more for each studio than a Dell 486DX/66, a Digital Audio Labs professional sound card, and the Digital Audio Labs editing software known as Fast Eddie, Northwest Public Radio was able to severely cut back news production time, increase sound quality, and enable complete virtual portability of the audio sources to be integrated into upcoming newscasts. Audio segments of news are now directly played onto the air from a PC hard drive, with the simple click of a mouse button.

At Jefferson Public Radio, we see similar potential, but the conversion is slow. The building of our first digital production studio is complete, but it isn't enough. Based around a Macintosh Quadra 660av, with an external 530MB Joule hard drive, it uses Deck II software (from OSC, which really does stand for Our Stinking Corporation), it provides us with completely automated mixing, convenient waveform editing, and many other multitrack options that are either inconvenient or physically impossible in an analog production environment. The Mac is surrounded by traditional studio equipment: a microphone for voice recording; DAT, reel-to-reel, and cassette tape decks; two CD players; a cart machine; and a mixing board. The capabilities of digital editing and mixdown there will ideally greatly enhance our news production, as it has for Northwest Public Radio, and the production of music features and underwriting/station IDs. However, at this point, it's mostly potential and not realization. We don't have digital capabilities in the control rooms, so no audio can be played on air straight from disk. We don't have digital capabilities in the newsrooms, either, so recordings must begin as analog sources—and then to mix and edit digitally, the source must first be loaded onto the disk in real time, and converted to digital files. The 530MB hard drive only holds about fifteen minutes of audio—so all files must be dumped off at the completion of an editing session. For occasional uses it can be worth it: Russ Levin, one of JPR's classical music DJs, gives the example of a recorded version of the Carmina Burana during which the audience inappropriately applauded between each and every one of the twenty-four segments of the work. He loaded it onto the Mac and then quickly and cleanly removed the clapping before airing the tape. However, in most cases, the load-in and load-out time is prohibitive.

Behind the scenes, other PC applications besides direct audio playback, recording, and mixing are developing. At the West Coast Public Radio Conference, David Lentz, operations director of BSU Radio—a public radio network based in Boise, Idaho—demonstrated how PCs have recently streamlined their internal operations. Using Netscape and Windows 3.11 as a front end on a LAN between staffers' PCs, the station has been able to increase communication between staff members, put the station's operations manual online (allowing any control board operator with questions or troubles to immediately call the manual up and find the proper procedure), and file all discrepancy reports (i.e., problems) in a fast and efficient way.

Trailing-Edge Technology

Yet traditional public radio life goes on also, relying on outdated equipment, poorly paid staff, and armies of volunteers. At JPR, to reach a potential listenership of 650,000—reaching south to north from Redding, CA to Roseburg, OR, and reaching east to west from Klamath Falls, OR to Coos Bay, OR—we have to maintain a complex nightmare of equipment that includes eleven separate mountaintop transmitters (each with separate call letters and frequency) and thirty-four translators (mountaintop installations that take transmitted signals and rebroadcast them into valleys where the signal wouldn't otherwise reach). All of this equipment has to be operated by remote control from the main studio in Ashland, with enough ease that the station operator can do so and still be a DJ at the same time. The internal operations to provide the programming signals to these stations are no less complex—we provide three entirely separate programming signals simultaneously. Without computers, that would be fantasy. With them, it's merely very difficult, made no easier now that the engineering department's old Epson 286—with the AutoCAD design program on it—is beginning to freeze up on a regular basis.

Indeed, few of our computers are state-of-the-art. Most often they're relics; but as long as they're functional and adequate, they're more often cherished than cursed at.

The most key computer operation is the remote control of the transmitters. The software for this is actually close to state-of-the-art. It's provided by Moseley, the company which also

continued on page 294

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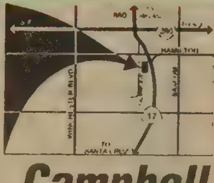

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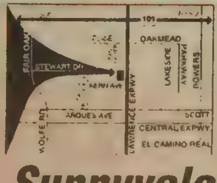

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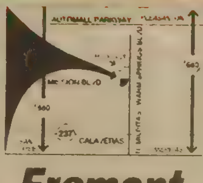

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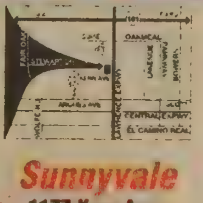

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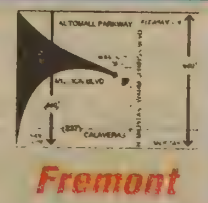

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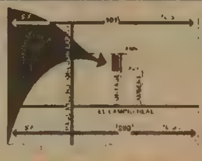

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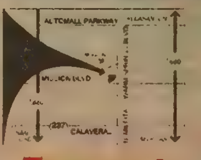

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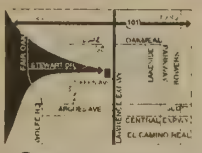

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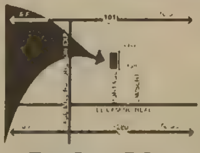

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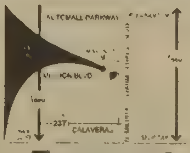

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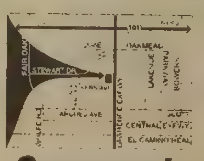

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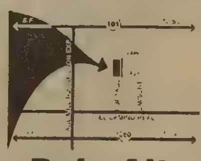

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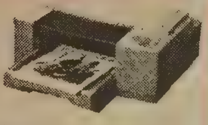

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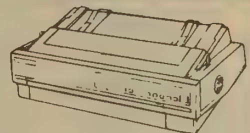

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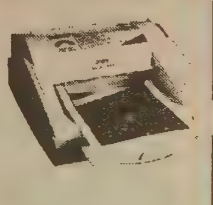

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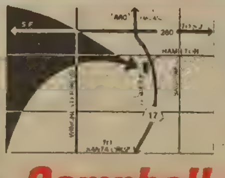

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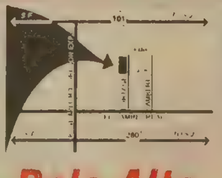

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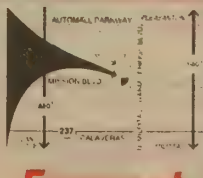

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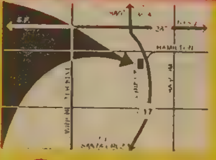

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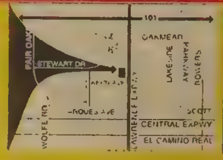

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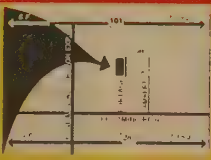

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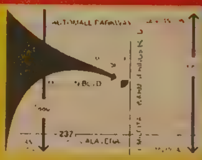

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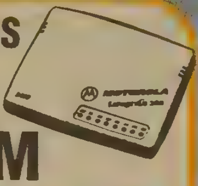
MOTOROLA LIFESTYLE SERIES
28,800 BPS V.34 EXTERNAL FAX/MODEM



- **Quality**-unparalled Motorola quality and reliability
- **Easy**-Plug and Play combatible
- **Fast**-send and receive faxes, orders and information at rates up to 115,200bps
- **Efficient**-error correction for clear faxes, reliable data every time
- **Secure**-password and callback security

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- **Easy**-Plug and Play combatible
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- **Secure**-password and callback security

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Internal Halfcard • Compressed data Through put of 115,200 bps
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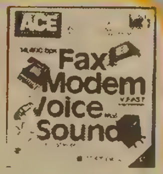

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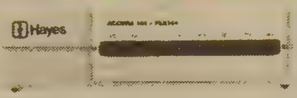

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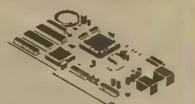

- Easy plug and play installation for Windows 95!!!
- 14,400bps data/14,400 bps fax
- 5 year limited warranty
- Automatically negotiates the best speed and protocol
- Send and receive faxes in the background

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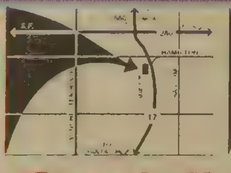

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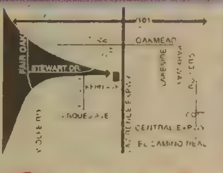

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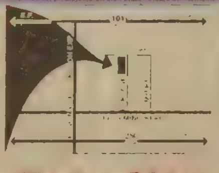

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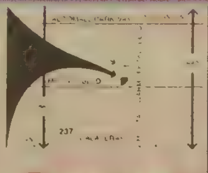

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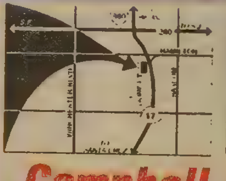

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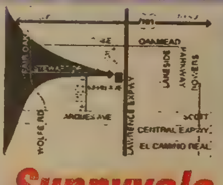

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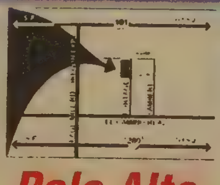

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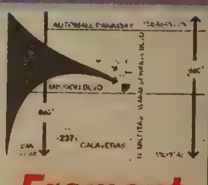

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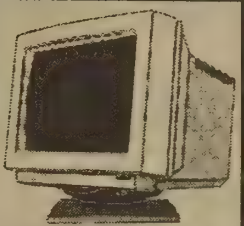

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Digital Control

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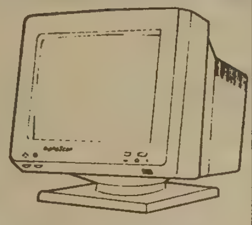

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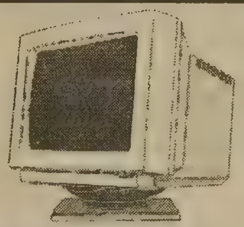

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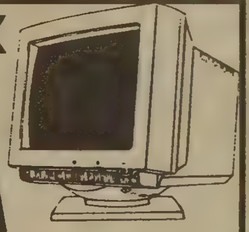

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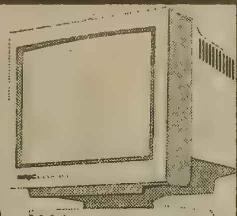

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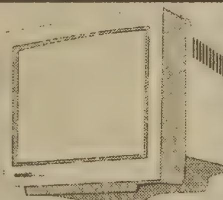

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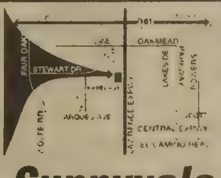

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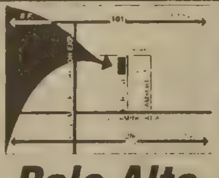

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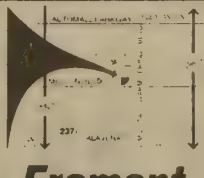

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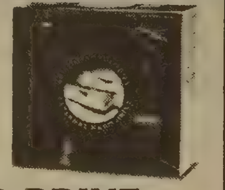

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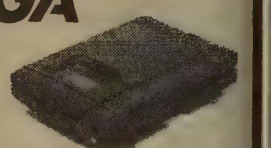

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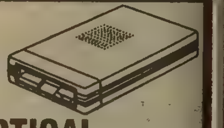

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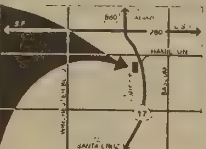
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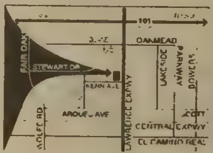
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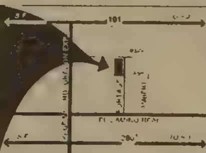
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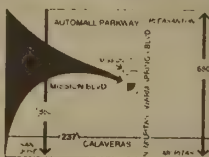
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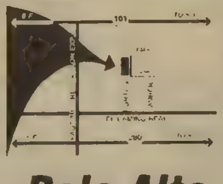

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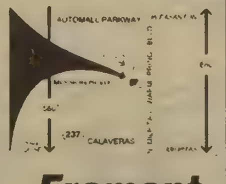

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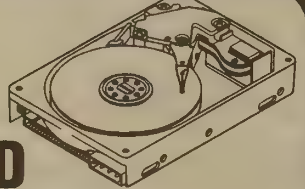

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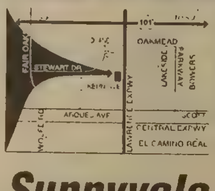
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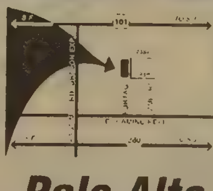

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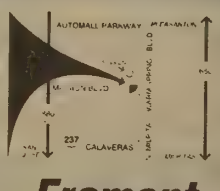
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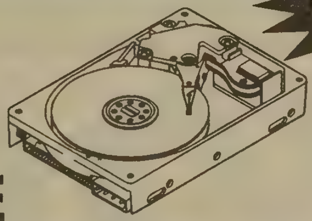

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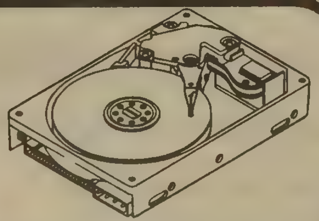

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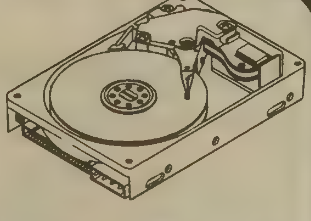

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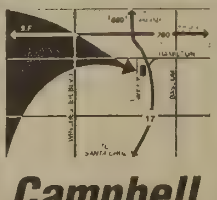
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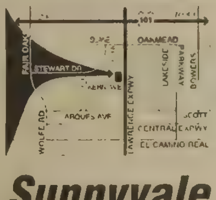
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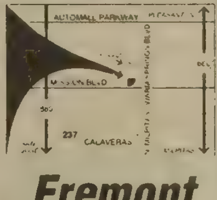
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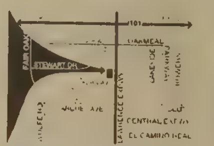

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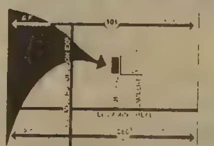

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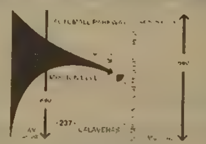

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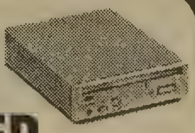

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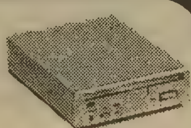

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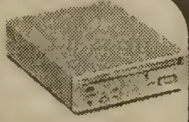

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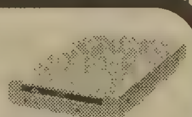

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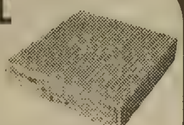

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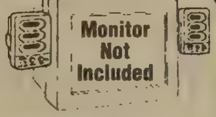

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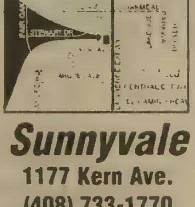

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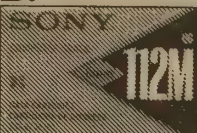

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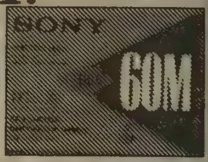

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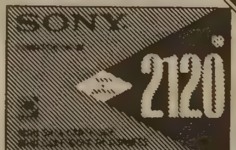

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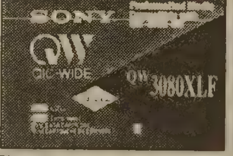
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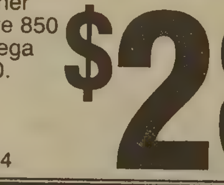
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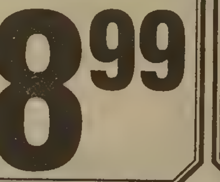
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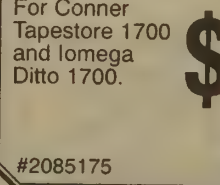

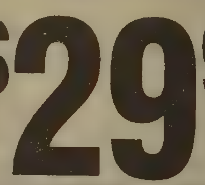
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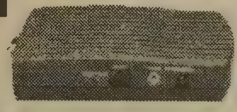

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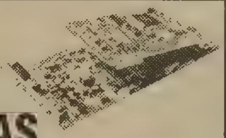

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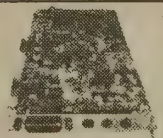

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- 28 voice, 16 channel Sound Canvas General MIDI synthesizer featuring Articulated Wave technology
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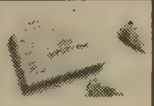

Portable PC-to-TV Encoder

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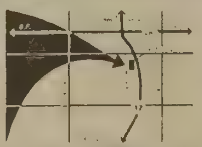

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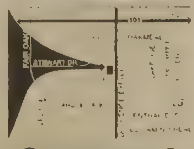

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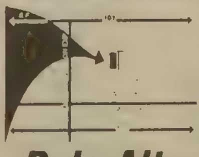

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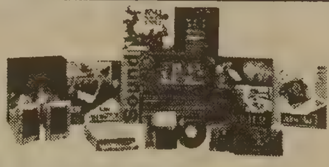

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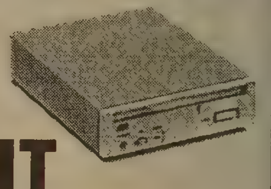

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- Several easy installation tools

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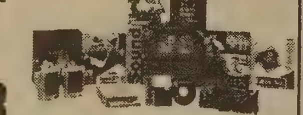

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- Double-speed internal CD-ROM drive
- Stereo speakers Includes 5 multimedia software titles

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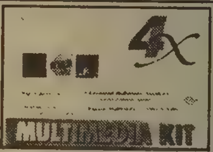

- Internal Quad-speed CD-ROM Drive - 600 Kbyte/sec transfer rate for exceptional multimedia performance
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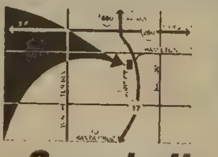

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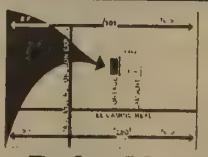

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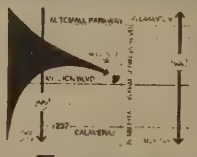

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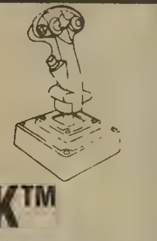

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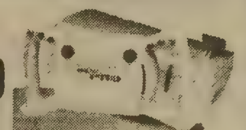

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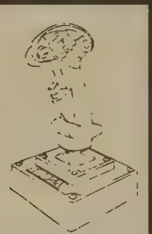

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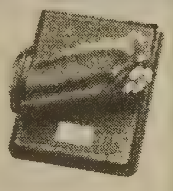

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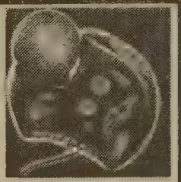

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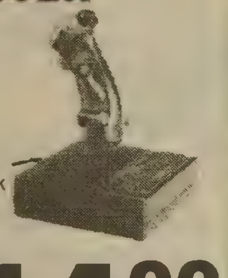

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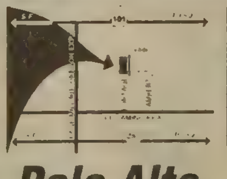

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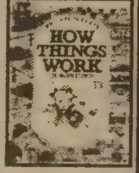

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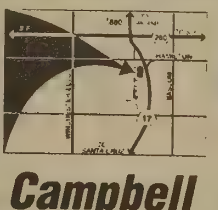

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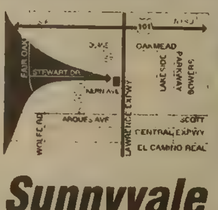

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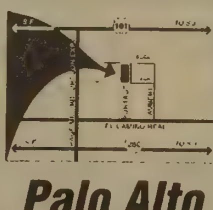

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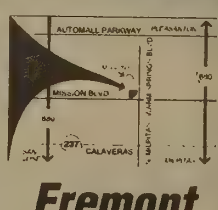

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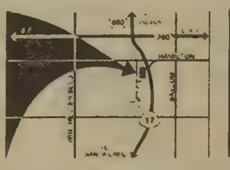

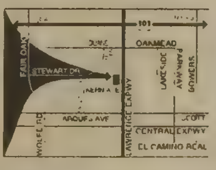

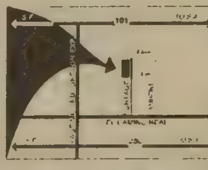

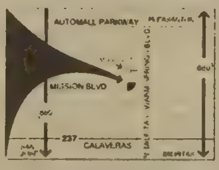

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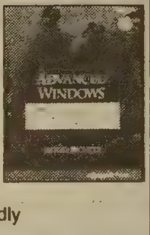

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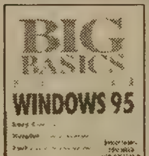

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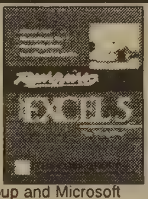

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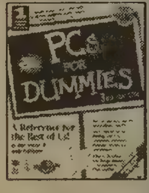

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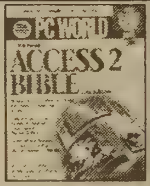

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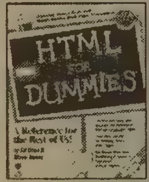

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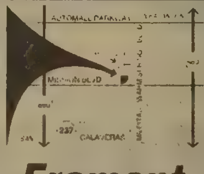

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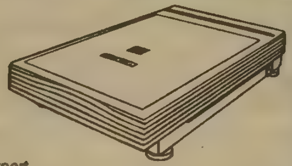

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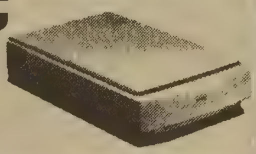

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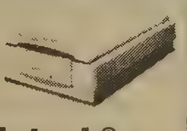

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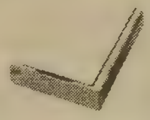

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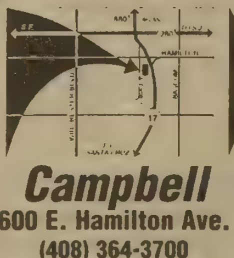

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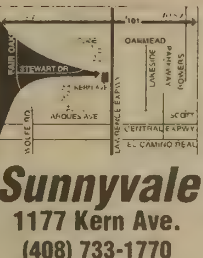

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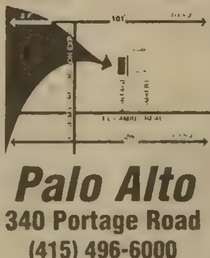

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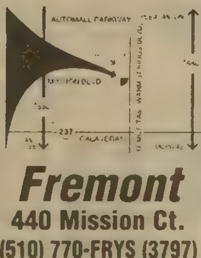

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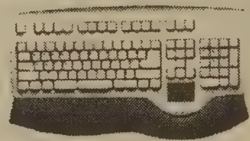

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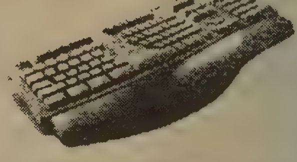

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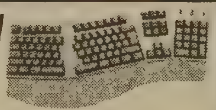

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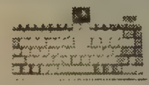

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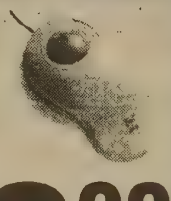

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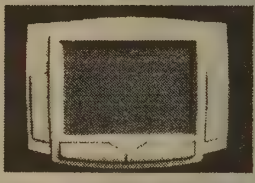

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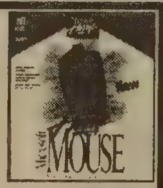

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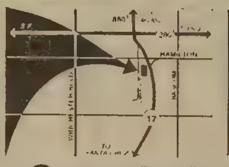

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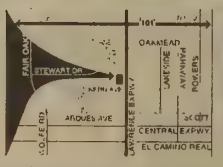

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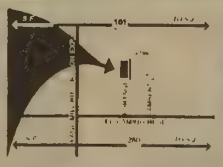

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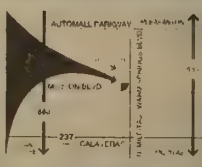

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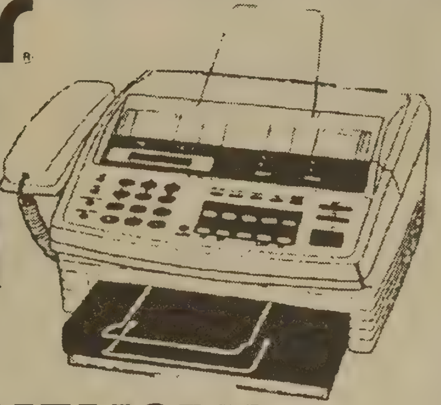

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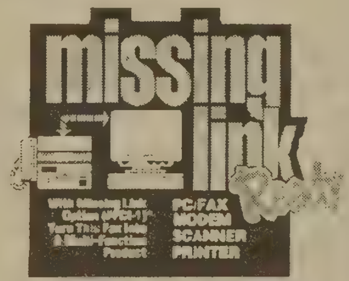
missing link
With Missing Link Option (PCI-1) Turn This Fax Into A Multi-Function Product
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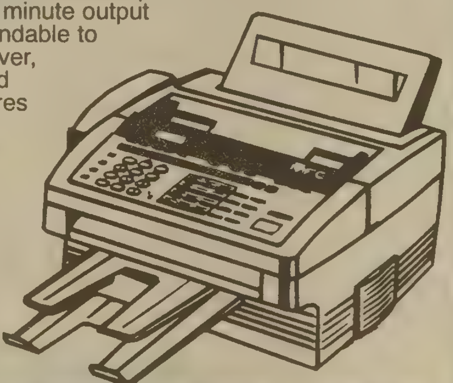
The Brother MFC-4500ML five-in-one multi-function center integrates five separate products into one compact desktop package! Fax features include 512K memory for 20 pages of document storage either for broadcasting or out-of-paper reception (upgradable to 70 pages/1.5MB), 200 sheet paper tray, 64 level grayscale, 124 number memory, and much more! As a printer for your computer this machine provides 300 x 300 dpi laser 6 page per minute output as well as 512K memory (expandable to 20MB), Optimized Windows driver, Intelliprint, 45 internal fonts, and Power save mode. Other features include multiple copying up to 99 copies with reproduction/ enlargement capabilities, 200 x 400 dpi scanner with Windows PC and fax/modem. The ultimate fax machine for home or office is now available for just...



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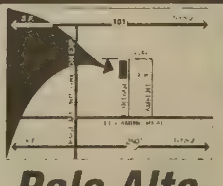

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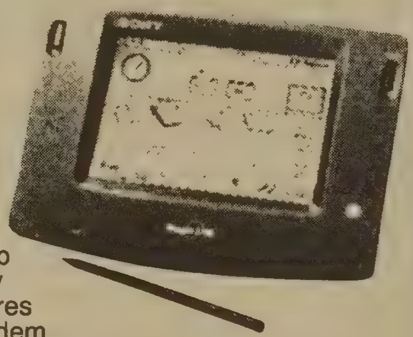

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Psion has redefined the state of the art in hand held computers with the new Series 3. It may be small, but this pocket-sized programmable computer comes equipped with features found in desktop machines plus powerful built-in software, including a full specification word processor and outliner that's compatible with Microsoft word. When using the Series 3 you will quickly learn from the system of graphic displays and option list how easy the Series 3 is to use. And with Psion's unique Multitasking Operating System, as many of the facilities as you want can be used at the same time! Other features include an automatic phone dialer, world information, a time and personal management file, powerful graphics programming language (OPL/w) which will enable you to write your own applications and two expansion ports for plug in SSD devices for unlimited memory and software.

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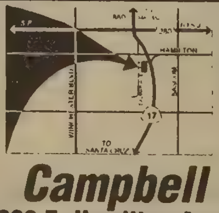

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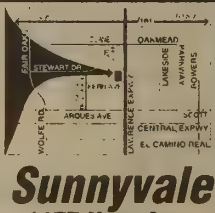

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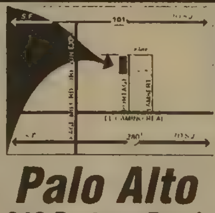

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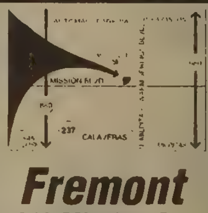

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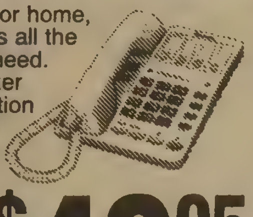
SPEAKERPHONE



For the office or home, this phone has all the features you need. It has a speaker phone, 28 station automatic dialer, automatic redial and much more.

$49.95

Model KX-T2315
#1530100

Panasonic

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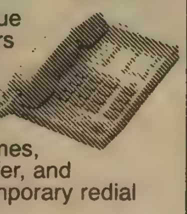

This outstanding value from Panasonic offers one-touch dialing for up to 28 16-digit telephone numbers, auto redial for up to 15 times, redial memory transfer, and a save button for temporary redial memory storage for only...

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Model KX-T2355
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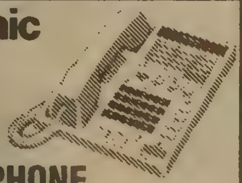
TWO LINE SPEAKERPHONE



A perfect compliment to your home or office, this two-line speakerphone comes equipped with 3-way conferencing, 20 number programmability, separate ring switches for each line, and a local mode function. Now only...

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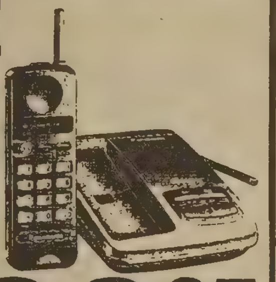
Model KX-T3110
#1505313

900MHz EXTENDED RANGE CORDLESS PHONES

Panasonic

30 CHANNEL PALM-SIZED EXTENDED RANGE 900MHz CORDLESS PHONE



This Panasonic 900MHz cordless phone features a unique palm-sized design with lighted keypad, 30 channel access, high gain rubber antenna, reversible handset, sound charger, noise reduction technology, and more, all for just....

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MODEL KX-T9500
#1948839

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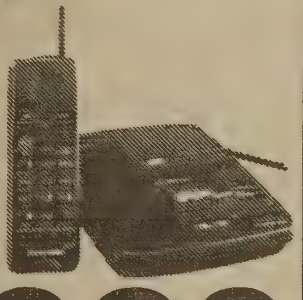
900MHz PALM-SIZED CORDLESS PHONE WITH ALL DIGITAL ANSWERING MACHINE



Panasonic's highly anticipated 900MHz cordless phone with all digital answering machine is finally here and it was well worth the wait! It's compact base and palm-sized handset make this the perfect addition to any home or office. Features include 10 number memory, 30 channel AutoScan, 3 personal mailboxes, 2-way/memo recording, intercom with 2-way paging, pager call, message scan (scans the first few seconds of each message), and much more. Now just...

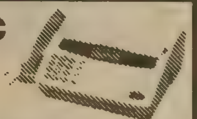
$329

MODEL KX-T9550
#2068220

FAX MACHINES

Panasonic

FAX MACHINE WITH PAPER CUTTER AND SPEAKERPHONE



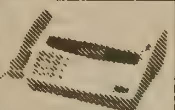
Panasonic line of fully featured fax machines start with this compact model which includes 64 level grayscale. super thermal paper compatible, paper curl reduction, 164' paper roll capacity. 15 page document feeder, distinctive ring. delayed transmission. paper save mode, telephone directory with alpha-search. 12 station one-touch with 28 station speed dialing. and much more. All for just...

$279

Model KX-F550
#1944271

Panasonic

FAX MACHINE WITH PAPER CUTTER, SPEAKERPHONE AND ALL DIGITAL ANSWERING MACHINE



Panasonic line of fully featured fax machines includes this compact model which with 64 level grayscale, super thermal paper compatible, paper curl reduction, 164' paper roll capacity, 15 page document feeder, distinctive ring, delayed transmission, paper save mode. telephone directory with alpha-search, 12 station one-touch with 28 station speed dialing, and much more. All for just...

$345

Model KX-F750
#1944282

Panasonic

PLAIN PAPER FAX MACHINE

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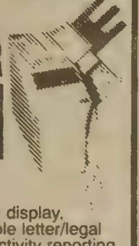
WITH 20 PAGE MEMORY



The ultimate plain paper fax from Panasonic features a jumbo LCD display, 70 page paper cassette. adjustable letter/legal tray, 32 level halftones. polling, activity reporting, 20 page document feeder. broadcasting to 128 locations. fax transfer. enlargement and reduction copierfunctions. fax/tel switch. 28-station one-touch dialer, 100-station speed dialer, telephone directory with alpha-search.

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Model KX-F3000
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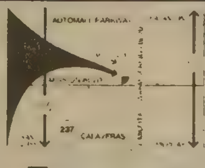

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This ingenious telephone uses dual ringers with distinct ringer sounds and seperate ringer controls for each line! By pressing the conference button you will be able to conduct a three way conversation. An excellent value at only...

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AT&T

SPEAKERPHONE

With features like hands-free speakerphone, 32 number memory, hold, receiver and speakerphone volume control, last number redial, flash, ringer control, programmable pause, mute, just to name a few, this AT&T speakerphone will be an excellent addition to any home or office at only...

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MODEL 825
#1955046

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FOUR LINE SPEAKERPHONE

This deluxe four-line speakerphone is capable of handling up to four lines with a maximum of 16 stations. Its convenient 32 number one-touch telephone memory, along with all station page, intercom, call transfer, busy redial, flash and much more make this the perfect addition to any home or office at just......

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Don't settle for a copy when you can have the original... Xerox. This model offers a paper tray that stacks 40 sheets. a built-in carrying handle and removable storable paper trays. multi-copy capability which can be set from 1 to 9 copies or "C" for continuous up to 20 copies. and automatic exposure which scans documents for degrees of lightness or darkness to determining the appropriate exposure setting. An invaluable addition to any home office. Refurbished to work like new at only...

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MODEL 5222B
#2040662

SHARP

LETTER/ LEGAL PERSONAL COPIER

Compact and lightweight, this Sharp copier weighs only 17.5 lbs. and fits virtually anywhere! Yet, it even lets users make multiple copies up to legal size (81/2" x 14") originals onto a wide range of papers from 81/2" to 4" x 6", allowing an expanded range of applications. Other features include auto exposure, 50 sheet paper tray capacity, auto start function and much more! An excellent value at just.....

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COPIER WITH REDUCTION AND ENLARGEMENT

If you're looking for versatility and premium performance in a copier your search is over! Xerox has designed a copier that incorporates reduction/enlargement technology enabling you to reduce a copy 75% and 95%, and enlarge to 124%, a 250 sheet paper tray which adjusts to hold memo to letter to legal size paper, built-in automatic exposure which scans documents for degrees of lightness or darkness to determine the appropriate exposure setting, multi-copy capability of 1 to 50 copies, letter and legal size copying, and manual bypass, all backed by the experts at team Xerox. Now just...

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WHILE THEY LAST!

MODEL 5009RE #1706109

900 MHz EXTENDED RANGE CORDLESS PHONES

uniden

40 CHANNEL 900MHz CORDLESS PHONE

Uniden's latest 900MHz cordless phone gives you unparalleled range and performance along with premium features that include 40 channel selection, call monitor, 2-way/hands-free intercom, 10 number memory, mute, last number redial, flash, and much more, all for just....

$\$158^{99}$

MODEL EXP-901
#1965005

Panasonic

900MHz CORDLESS DUAL KEYPAD SPEAKERPHONE

This palm-sized 900MHz cordless phone comes equipped with dual keypad speakerphone for handsfree operation, 30 channel autoscan, intercom with 2-way paging, 20 number memory, a dual battery charging system, flash, hold, and last number redial. An excellent addition to any home or office at..

$\$249^{95}$

MODEL KX-T9520
#2068219

VTECH

DIGITAL 900MHz CORDLESS PHONE WITH 30 MINUTE ALL DIGITAL ANSWERING MACHINE

If you want premium performance in a cordless phone look no further than this digital 900MHz Cordless phone with 30 minute digital recording capability and 4 programmable voice mailboxes! Beside the extended range and improved clarity over traditional 49Mhz cordless phones, this model also offers handset volume control,10 number memory, low battery and out-of -range indicator, one-way paging, programmable ring, mute, flash, as well as, message skip and repeat (for immediate access to the next or previous message without having to wait for a tape to rewind or fast forward), and a whole lot more! An excellent value at...

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MODEL 900i #207201

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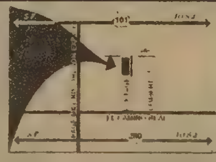

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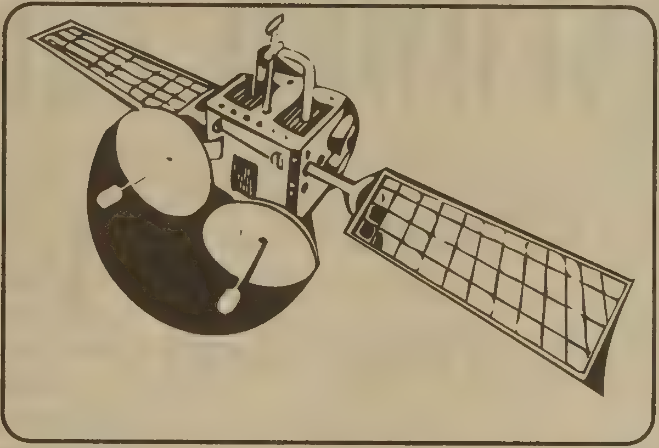

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DIGITAL SATELLITE SYSTEM (DSS) DISH AND RECEIVER

Enjoy over 175 channels of top-notch entertainment with the crystal, digital clarity of the new RCA DSS system. CD quality sound and over 400 lines of video resolution, provide an incredible entertainment experience. Let Fry's and RCA help you drive on the Information Superhighway!!!
*System price does not include monthly programming fees starting a $29.95 plus additional charges for pay-per-view movies and events.

MODEL DS-1120WR
#1942578

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SONY.

DIGITAL SATELLITE SYSTEM (DDS) DISH AND RECEIVER

Sony's new DSS system is compatible with more than 175 channels of DirecTV and USSB programming. CD quality sound and over 400 lines of digital video resolution work together to give and outstanding home theatre experience. **Other features include Sony's signalseeker LED** for easy install and a universal remote.*System price does not include monthly programming fees starting a $29.95 plus additional charges for pay-per-view movies and events.

MODEL SAS-BS1
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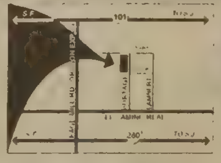

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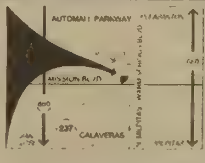

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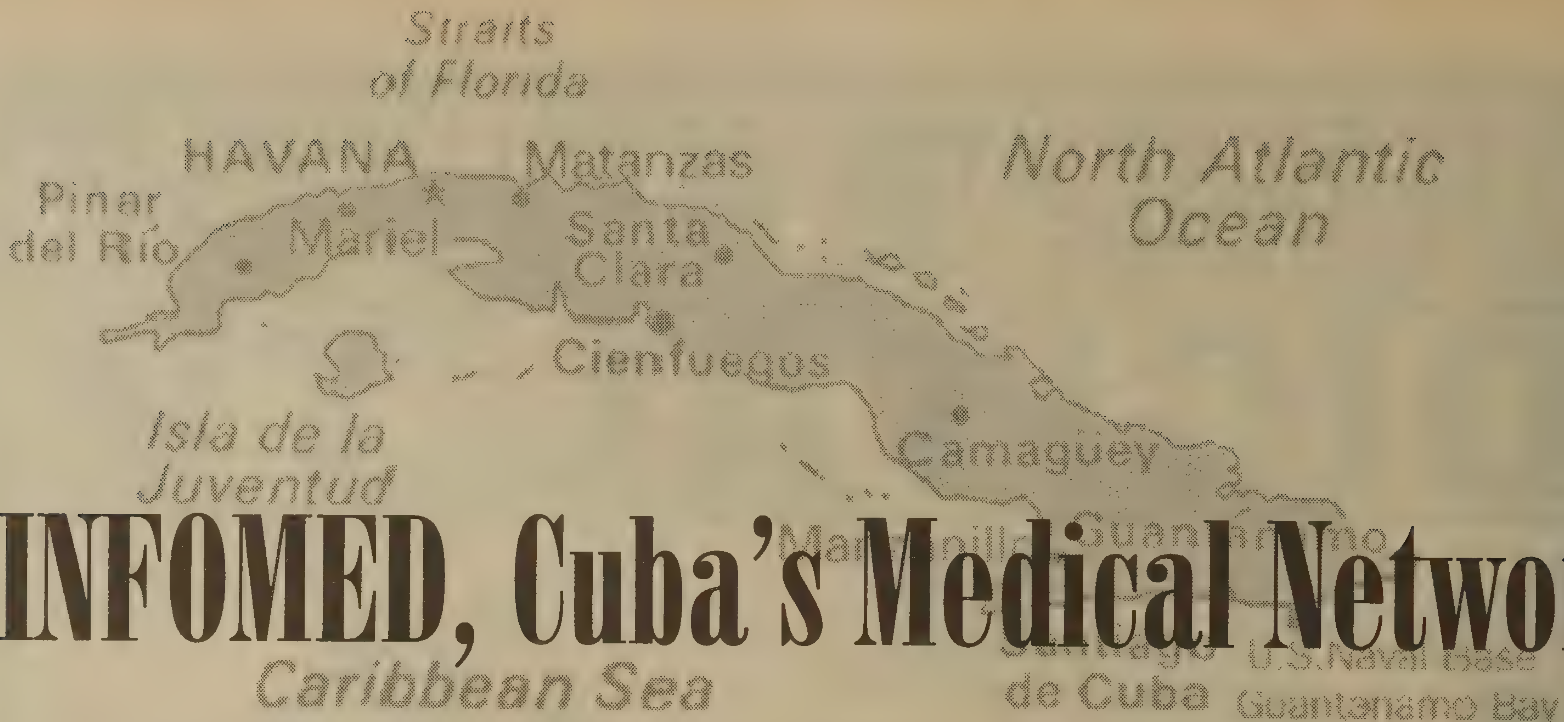

INFOMED, Cuba's Medical Network

Connecting Cuba's Rural And Urban Hospitals To Each Other And Beyond

◆

By David Wald And Juan Reardon, MD, MPH

It's hardly unusual when computer technology and medical technology are joined. In Cuba, computerized information technology is coming to the rescue of physicians and medical workers. Project INFOMED is the embodiment of this development.

Cuba's long-term involvement with health care was bolstered in the early '70s when President Fidel Castro proclaimed his objective that "Cuba will become a world medical power." To a considerable degree this has come to pass. (With fifty-seven thousand physicians Cuba has one per each 192 inhabitants.) Based on a high level of general and specialized education Cuba has invested heavily in medical technology — biotechnology, pharmaceuticals, and medical instrumentation, as examples.

Maintaining the effectiveness of a sophisticated medical system requires the efficient dissemination of medical data, including the ability to search and locate specific information, as requested by physicians, researchers, and medical students. With the advantage of a highly educated population, and with the cooperation of key medical personnel, the Ministry of Public Health succeeded in creating a well-functioning National Center for Medical Sciences Information (CNICM). That was established some thirty years ago.

Information specialists at CNICM were charged with the task of continually updating the medical system with respect to modern medical technology worldwide. To a large degree, they've been involved with subscribing to, cataloging and distributing medical journals, many from the United States. The weakening of the Cuban economy has had the effect of lowering the budget for medical journals and books; from a high of $1 million CNICM is currently down to $35,000. But Cuban medicine has also contributed to the store of world medical knowledge. CNICM handles the publication of twenty-five medical journals through the National Center's publishing facility, ECIMED (Editorial Cincias Medicas.)

Almost two years ago CNICM initiated Project INFOMED, aimed at the creation of a wide area network to link outlying areas of the country to regional and provincial servers which, in turn, connected with a central database in Havana. Here was one way to circumvent the problem of insufficient copies of medical journals, with the added bonuses of computerized search capabilities and rapid data transmission.

The short-term goal? To allow any medical worker with access to a terminal to request medical information—journal articles, pharmaceutical data, medical alerts—at the tap of the keyboard, from the central computer; information that is vital to optimum diagnosis and treatment of their patients. The family doctor, say, in an outlying mountainous region may not know what herbs and conventional medications would be most appropriate to prescribe for a particular patient. They can ask the proper questions through the computer system and a central database repository will probably provide the answer within seconds.

INFOMED also makes it possible for medical scientists, academics, researchers, medical students, and professionals to communicate with one another. Through the system, Cuban professionals can easily obtain and submit important medical articles, bulletins, and even excerpts from books.

Contra Costa County epidemiologist Dr. Juan Reardon met with Dr. José Francisco Rodríguez Pérez, a young physician who was assigned to the project less than a year ago. Dr. Rodríguez provides medical expertise for Lic. Pedro Urra, a computer professional originally trained in foreign service. Urra is reponsible for the overall design of the INFOMED network and directs the development of software for the system. A major consideration, Dr. Rodríguez explained,

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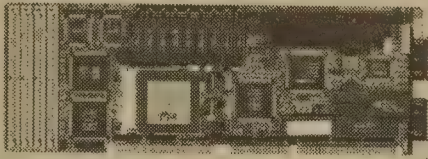

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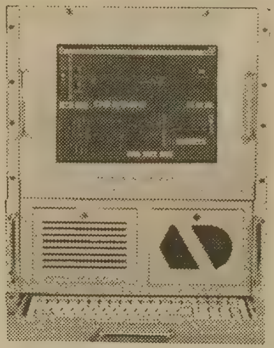

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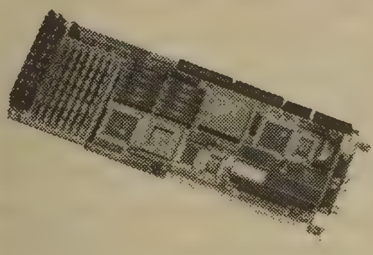

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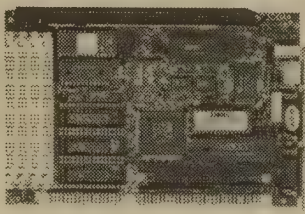

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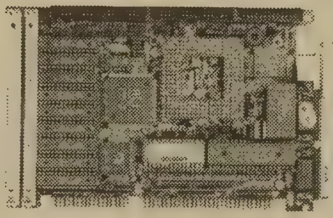

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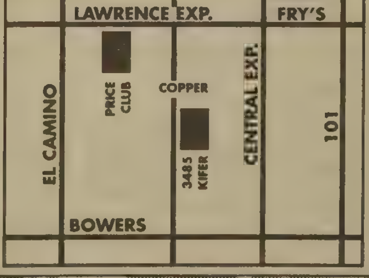

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INFOMED

continued from page 214

is the creation of user-friendly software for medical personnel who are not about to become hackers. The approach was to initiate a system structure that would be flexible enough to permit additional sophistication as soon as it was available—but able to get medical workers online as quickly as possible. It is apparent, from the present level of traffic, that they have done that.

The director and subdirector of the National Center, Drs. Jeremías Hernández Ojito and Jehová Oramus Díaz, respectively, provided background information about the National Center and explained that a major portion of Project INFOMED was initially funded by the Pan American Health Organization (PAHO) with follow-on money from United Nations Special Projects.

At this stage of the project, the INFOMED network is a national grid. After only eighteen months of implementation following the six-month planning period, the INFOMED network was already in place, with four servers currently functioning in the provinces (City of Havana, Villa Clara, Camaguey, and Santiago de Cuba) and with a list of subscribers in excess of two hundred, and growing fast. Those four will take on the additional role of regional servers as soon as the other ten provinces have their servers installed. Those ten are being prepared at CNICM and will be in place by November 1995. All servers are Intel-based 486 PCs. (The City of Havana will house the core of the system.) The sites for the servers will generally be major teaching hospitals and medical schools in each province. Staff physicians, medical students, and researchers will have access to terminals located in and around their respective institutions: general and special hospitals, medical schools, and medical research institutes. At the present there are about one hundred terminals scattered across the country.

Two of Cuba's best known research centers are the Carlos Finlay Institute, where the first WHO-approved meningitis B vaccine was developed (currently being used in Argentina and Brazil and under evaluation in Chile and several other Latin American countries) and the Center for Genetic Engineering and Biotechnology, both in western Havana. Such institutes will have high priority for multiple terminals. At the other end of the medical hierarchy the goal is to locate more terminals in remote sites where family doctors may have access to the INFOMED Network.

The family doctor, say, in an outlying mountainous region may not know what herbs and conventional medications would be most appropriate to prescribe for a particular patient. They can ask the proper questions through the computer system and a central database repository will probably provide the answer within seconds.

Urra and Rodríguez explained that the UN grant covers the cost of only the servers (and related expenses). The task of obtaining sufficient terminals is left up to the Cubans themselves (about eight hundred in all are needed.) They pointed out that PC-XT and PC-AT computers, counterparts to the early Model A and Model T Fords, are quite adequate as terminals. Fitted with 20MB or 40MB hard disk drives and 2400 baud modems, these older machines are allowing the users to tie into the national system. All of the terminals currently in place have been gathered from various sources, including eighteen from the Bay Area which arrived in July on a Pastors for Peace Friendshipment Caravan. The Bay Area support group for Project INFOMED is collecting and servicing PCs with the goal of sending two hundred units in January 1996.

Apart from the obvious hardware requirements of INFOMED, there is the matter of access to international medical databases. The US National Library of Medicine has compiled some very impressive databases, the most extensive and well-known being MEDLINE, used by thousands of medical personnel in our country. MEDLINE is available online as well as on CD-ROMs (which are updated quarterly). Rodriguez and Urra expressed great familiarity with MEDLINE, as well as with a

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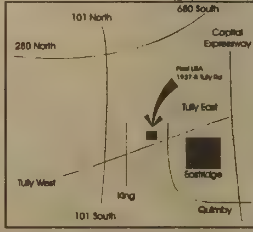

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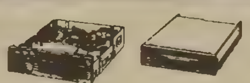

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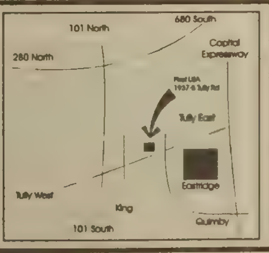

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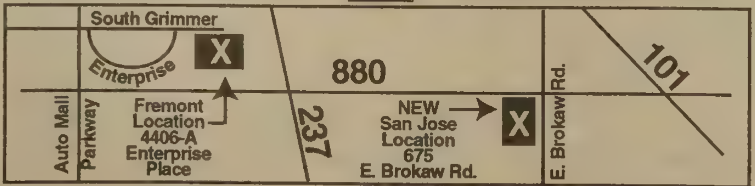
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continued from 216

few other databases such as Cancernet (which is already available to them via an Internet dial-up connection). The software to fully access the online version is available at nominal cost; the problem at this time is Cuba's lack of hard currency to pay for a high-level connection with the Internet (SLIP/PPP connection). But the CNICM is planning on such a connection some time in the not-too-distant future. Then INFOMED will be able to fully access medical databases beyond their own national system.

There are numerous computer clubs and formal classes in beginning, intermediate, and advanced computer technology, some located in the old Sears building in Central Havana, a building which also houses the popular email network, Tinored.

In The Clinic And The Field

At a medical school in Havana, the Instituto de Cincias Basicas Victoria Playa Giron (ICBVPG), we interviewed Dr. Félix Fernández, biochemistry professor and director of information. In a study hall/library, surrounded by forty or fifty medical students cramming for exams, Dr. Fernández described the plan to locate terminals right there where those students would have access to the medical databases. With computer technology popular among the youth in Havana, medical students are taking to networking with easy familiarity. (There are numerous computer clubs and formal classes in beginning, intermediate, and advanced computer technology, some located in the old Sears building in Central Havana, a building which also houses the popular email network, Tinored.)

The National Institute of Oncology and Radiobiology (INOR) is a leading cancer hospital, where María Sol López is director of the National Center for Oncology Information. She will be in charge of the node soon to be located within that institution and expressed great enthusiasm for the arrival of the equipment. Dr. Gilberto Fleites, chief of thoracic and abdominal surgery, is an energetic individual whose knowledge and interests include not only medicine but economics and computer technology. He spoke from the standpoint of an end-user of INFOMED and clearly saw how his work will become more effective with the advent of the node, particularly when he will have full access to Cancernet at the National Library of Medicine. Fleites explained his problem with obtaining and analyzing CAT scan images of patients from outlying districts who are awaiting surgery. The shortage of imaging film is being overcome by transmitting those images on the net without the intermediate step of recording them on the scarce media.

Cuban medicine has, for many years, maintained extensive central registries of medical statistics, the cancer registry being among the

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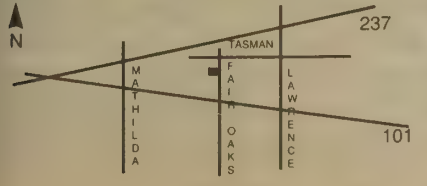

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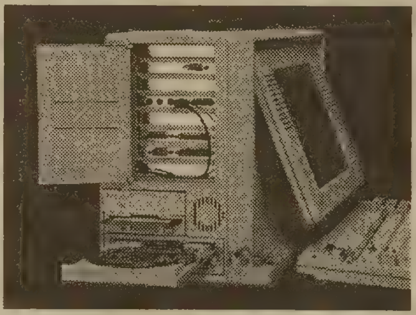

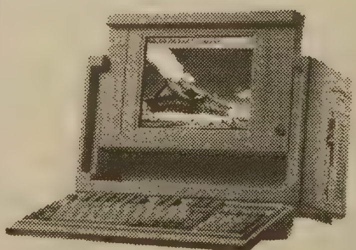

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~

most important. With the use of INFOMED, explained Fleites, the task of keeping accurate records is greatly simplified.

The nation's largest hospital, the Hermanos Ameijeiras, is a twenty-three-story building near the Malecon, Havana's aging boulevard on the Caribbean Sea. Located on the twenty-second floor of the hospital, the managers and users of the Ameijeiras node enjoy a fine panorama of Havana. The Ameijeiras started out to be a bank building until the new Cuban government (post-1959) decided to convert it to a hospital. It contains some of the most advanced medical equipment in Cuba. There Elio Esposito, the soft-spoken computer engineer in charge of the new INFOMED node, patiently described how the advent of INFOMED had substantially changed their working lives for the better. As a de facto "National Hospital" the Ameijeiras often plays the role of "hospital of last resort" and is called upon to handle medical cases that are beyond the capabilities of general hospitals. In that role, the specialists at the Ameijeiras are obliged to maintain close communications with many other hospitals in Cuba. The INFOMED network is making that task far more manageable.

One of the tasks of the Ameijeiras is to generate and disseminate medical educational material for the general population throughout Cuba. A separate department is dedicated to the production of leaflets, videos, and audio tapes on good health practice: preventing obesity, hazards of smoking, proper nutrition, alcoholism, etc. Now the use of INFOMED has simplified the task of transmitting this material to outlying medical institutions. Even such mundane tasks of announcing medical seminars, conferences, and lectures by visiting professors are carried out with the use of INFOMED. The attendance of medical personnel at these functions is far higher than ever before. (A recently visiting Canadian eye specialist was puzzled by the unexpectedly large attendance at his lecture at an institute in Havana until he learned that notice of his talk was disseminated via INFOMED.)

Project INFOMED demonstrates the unique functions that a computer network can perform in the scientific community, particularly medicine. The Cuban experience, born out of dire necessity rather than mere option, is demonstrating to the world community the great potential of computer networks to enhance the well-being of people, even beyond its value to the business community. ■

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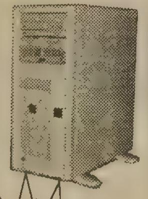

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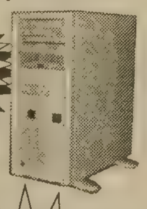

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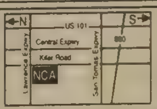

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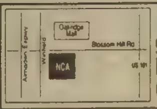

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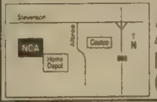

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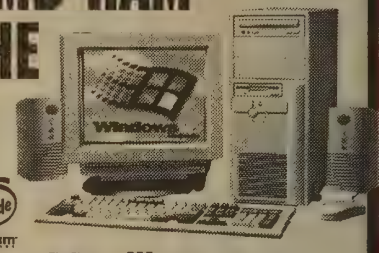

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- 4-PCI / 4-ISA (P&P ready), 256K cache
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- TRITON CHIPSET
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- 4-PCI / 4-ISA (P&P ready), 256K cache
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- 8MB RAM/70 pin SIMMs
- 101 keyboard
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- **TRITON** CHIPSET
- 8MB RAM/70 pin SIMMs
- 101 keyboard
- PCI IDE & floppy controller card - 2 floppies, 2 hard drives, 2 serial on board
- **Diamond** Stealth 64 2MB PCI video card
- **Western Digital** 1.2GB Enhanced IDE hard drive
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- 1.44MB floppy drive
- **Mitsumi** internal Quad-Speed 600/KB/s CD-ROM drive
- **SoundBlaster** Vibra 16-bit sound card
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- **TRITON** CHIPSET
- 8MB RAM/70 pin SIMMs
- 101 keyboard
- PCI IDE & floppy controller card - 2 floppies, 2 hard drives, 2 serial on board
- **Diamond** Stealth 64 2MB PCI video card
- **Western Digital** 1.2GB Enhanced IDE hard drive
- 1.44MB floppy drive
- **Mitsumi** internal Quad-Speed 600/KB/s CD-ROM drive
- **SoundBlaster** Vibra 16-bit sound card
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- **TRITON** CHIPSET
- 8MB RAM/70 pin SIMMs
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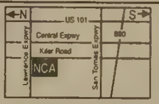

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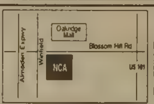

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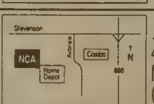

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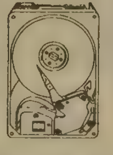

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- 12ms
- 2 yr. warr.
- Enhanced IDE

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71626A, 12ms, 128K Cache, Enhanced IDE

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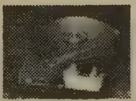

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- 64K cache
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- 10.5ms
- 5400 RPM
- 5 yr. warr.
- 512K

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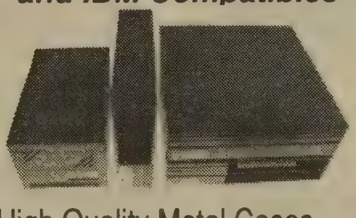
For MAC, SUN, Silicon Graphics, and IBM Compatibles



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- 5400RPM
- 512K cache
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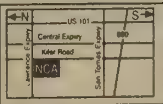

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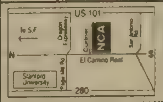

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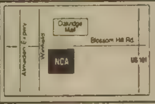

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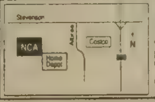

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Specify Quantum, Specify Quality

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CAPACITY	M/N	SEEK	SIZE	INTERNAL	EXTERNAL
730MB IDE	QM30730LTA	11ms	3.5"X1"	$179.95	N/A
730MB SCSI-2	QM30730LTS	11ms	3.5"X1"	$179.95	$278.95

DAYTONA SERIES® - 2.5"

CAPACITY	M/N	SEEK	SIZE	INTERNAL	EXTERNAL
341MB Fast ATA	QM20341DYA	17ms	2.5"	$279.95	N/A
514MB Fast ATA	QM20514DYA	17ms	2.5"	$325.95	N/A
341MB SCSI-2	QM20341DYS	17ms	2.5"	$249.95	N/A
514MB SCSI-2	QM20514DYS	17ms	2.5"	$319.95	N/A

EUROPA SERIES® - 2.5" NEW!

CAPACITY	M/N	SEEK	SIZE	INTERNAL	EXTERNAL
540MB Fast ATA	QM20540EUA	14ms	2.5"	*CALL*	N/A
810MB Fast ATA	QM20810EUA	14ms	2.5"	*CALL*	N/A
1.08GB Fast ATA	QM21080EUA	14ms	2.5"	*CALL*	N/A

FIREBALL SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
1.0GB FastATA-2	QM31080FBA	5400	12ms	3.5"X1"	$225.95	N/A
1.0GB FastSCSI-2	QM31080FBS	5400	12ms	3.5"X1"	$289.95	$388.95

TRAILBLAZER SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
850MB FastATA-2	QM30850TRA	4500	14ms	3.5"X1"	$195.95	N/A
850MB FastSCSI-2	QM30850TRS	4500	14ms	3.5"X1"	$239.95	$338.95

GRAND PRIX SERIES® *RAID READY!*

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
4.3GB-Fast SCSI-II	XP34301S	7200	8.6ms	3.5"	$999.95	$1098.95
4.3GB-Fast/Wide	XP34301SW	7200	8.6ms	3.5"	$999.95	$1098.95

ATLAS SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
2.1GB-SCSI-II	XP32150S	7200	8.5ms	3.5"	$865.95	$964.95
2.1GB-Fast Wide	XP32150SW	7200	8.5ms	3.5"	$909.95	$1008.95
4.3GB-SCSI-II	XP34300S	7200	8.5ms	3.5"	$1479.95	$1578.95
4.3GB-Fast Wide	XP34300SW	7200	8.5ms	3.5"	$1539.95	$1638.95

CAPELLA SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
2.2GB-SCSI-II	VP32210S	5400	8.5ms	3.5"	$669.95	$768.95
2.2GB-Fast Wide	VP32210SW	5400	8.5ms	3.5"	$775.95	$874.95

EMPIRE SERIES®

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
2.1GB-Fast SCSI-III	2100S	5400	9.5ms	3.5"	$629.95	$728.95

! 2 year warranty on all Quantum drives - 5 year on all over 1.0GB - 1 year on all 2.5"

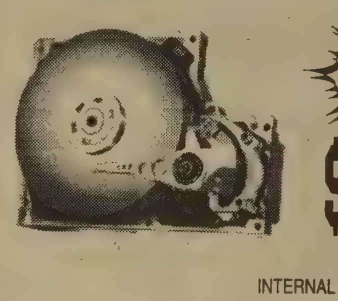
▶ FACTORY NEW WITH FULL FACTORY WARRANTY

Seagate

BARRACUDA SERIES®

2.1GB SCSI-II - AV READY

- ST32550N
- Barracuda II
- 3.5"x1", 8ms
- 7200RPM
- 512K cache
- Fast SCSI-II
- 800,000MTBF
- 5 year warranty



Low Price Guarantee*

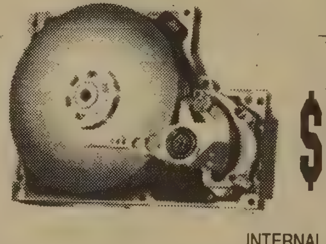
INTERNAL **$919.95**

External.. **$1018.95**

HAWK IV SERIES®

4.3GB SCSI-II - AV READY

- ST15230N
- Hawk IV
- 3.5", 9ms
- 512K cache
- 5400RPM
- Fast SCSI-II
- 800,000MTBF
- 5 year warranty



Low Price Guarantee*

INTERNAL **$1019.95**

External.. **$1118.95**

IDE

CAPACITY	M/N	CACHE	SEEK	SIZE	PRICE
540MB-ATA	ST3660A	ATA	14ms	3.5"X1"	$162.95
850MB-Fast ATA-2	ST5850A	256K	11ms	3.5"X1"	$199.95
1.08GB-Fast ATA-2	ST51080A	128K	11ms	3.5"X1"	$249.95

SCSI

CAPACITY	M/N	RPM	SEEK	SIZE	Internal	External
1.05GB-SCSI-II	ST31230N	5400	9ms	3.5"X1"	$389.95	$488.95
1.05GB-Fast Wide	ST31230W	5400	9ms	3.5"X1"	$429.95	$528.95
2.1GB-SCSI-II	ST32430N	5400	9ms	3.5"X1"	$789.95	$888.95
2.1GB-Fast Wide	ST32430W	5400	9ms	3.5"X1"	$859.95	$958.95
2.1GB-SCSI-II	ST32550N	7200	8ms	3.5"X1"	$919.95	$1018.95
2.1GB-Fast Wide	ST32550W	7200	8ms	3.5"X1"	$999.95	$1098.95
4.3GB-SCSI-II	ST15150N	7200	8ms	3.5"	$1339.95	$1438.95
4.3GB-Fast Wide	ST15150W	7200	8ms	3.5"	$1385.95	$1484.95
4.3GB-SCSI-II	ST15230N	5400	9ms	3.5"	$1019.95	$1118.95
4.3GB-Fast Wide	ST15230W	5400	9ms	3.5"	$1149.95	$1248.95
9.0GB-SCSI-II	ST410800N	5400	10ms	5.25"	$2249.95	$2449.95

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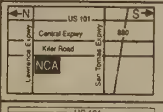

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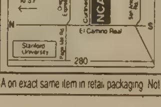

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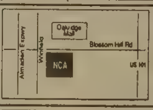

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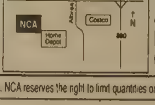

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Fax: (408) 567-1915

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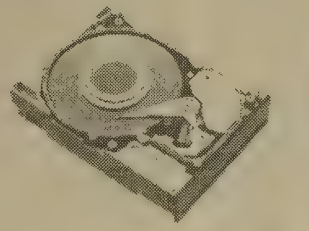
HARD DRIVES

MICROPOLIS

9.1GB 5.25" FAST SCSI-II

- MC1991
- 12ms Seek Time
- 5400RPM
- 5.25"
- 650,000MTBF
- 5 year warranty



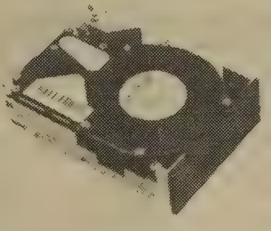
Novell Labs Tested & Approved

$2099⁹⁵

EXTERNAL...$2299⁹⁵

4.0GB 3.5" FAST SCSI-II

- MC3243S
- 8.5ms Seek Time
- 7200RPM
- 3.5"
- 5 year warranty



Novell Labs Tested & Approved

$1199⁹⁵

EXTERNAL...$1298⁹⁵

2.0GB 3.5" FAST SCSI-II

- MC4221
- 8.5ms Seek Time
- 7200RPM
- 3.5"
- 5 year warranty

Novell Labs Tested & Approved

$899⁹⁵

EXTERNAL...$998⁹⁵

SCSI

CAPACITY	M/N	CACHE	SEEK	SIZE	Internal	External
2.0GB	MC4221	7200	8.5ms	3.5"	$899⁹⁵	$998⁹⁵
2.0GB	MC4221AV		Audio/Video	3.5"	$949⁹⁵	$1048⁹⁵
4.0GB	MC3243S	7200	8.5ms	3.5"	$1199⁹⁵	$1298⁹⁵
4.0GB	MC3243AV		Audio/Video	3.5"	$1289⁹⁵	$1388⁹⁵
9.1GB	MC1991	5400	12ms	5.25"	$2099⁹⁵	$2299⁹⁵
9.1GB	MC1991AV		Audio/Video	5.25"	$2299⁹⁵	$2499⁹⁵

FUJITSU®

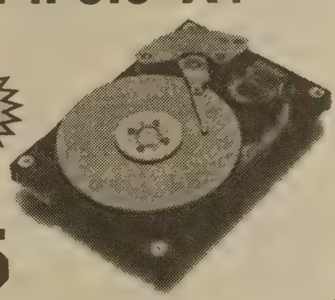
Novell Labs Tested & Approved

Low Price Guarantee*

2.17GB SCSI-II 3.5"X1"

- **M2915SAU**
- **3.5"X1" Drive**
- **9ms Seek Time**
- **512K cache**
- **7200RPM**
- **3-Year Warranty**

NEW!



$699⁹⁵

EXTERNAL...$798⁹⁵

IDE

CAPACITY	M/N	CACHE	SEEK	SIZE	PRICE
525MB	M1603TAU	512K	10ms	3.5"X1"	$165⁹⁵
530MB	M2684TAU	256K	12ms	3.5"x1"	$155⁹⁵
1.0GB	1606TAU	512K	10ms	3.5"x1"	$229⁹⁵

SCSI

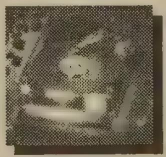
CAPACITY	M/N	CACHE	SEEK	SIZE	Internal	External
525MB	M1603SAU	512K	10ms	3.5"x1"	$189⁹⁵	$288⁹⁵
530MB	M2684SAU	256K	12ms	3.5"x1"	$169⁹⁵	$268⁹⁵
1.0GB	M1606SAU	512K	10ms	3.5"X1"	$319⁹⁵	$418⁹⁵
2.17GB	M2915SAU	512K	9ms	3.5"X1"	$699⁹⁵	$798⁹⁵

HEWLETT PACKARD

High Quality Hard Drives

1.2GB SCSI-II 3.5"X1"

- HP 3724
- 9.5ms Seek Time
- 5400RPM
- 512K cache
- Up to 20Megabytes/s burst(synchronous)
- 5-Yr. Warr.

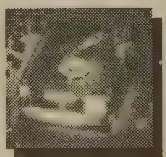


$379⁹⁵

EXTERNAL... $478⁹⁵

2.1GB SCSI-II 3.5"X1"

- HP 3725S
- 8.9ms Seek Time
- 6400RPM
- 512K cache
- 57 Mbits/s Trans. Rate
- Up to 20Megabytes/s burst(synchronous)
- 5-Yr. Warr.
- 800,000 MTBF



$729⁹⁵

EXTERNAL... $828⁹⁵

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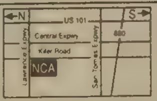

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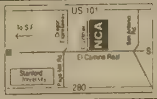

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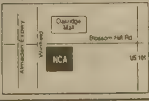

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⑤

COMPUTER UPGRADE SUPERMARKET

NCA's *High Quality*

EXTERNAL SCSI DEVICES *for PC, MAC, SUN, & SILICON GRAPHICS*

- High Quality External Cases.
- Noise-Free Fan
- Top Manufacturers Quality SCSI Devices
- Universal Power Supply 110/220V
- 2 External Centronics Connectors
- Selectable SCSI ID.
- External Termination / includes a terminator
- SCSI Cable (Cent50-Cent50 or Cent50 to DB25)
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- Fully Tested and Approved
- Mac Formatting and Caching Software (upon request)
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— Mac Formatting Software —

FWB incorporated
CD-ROM TOOLKIT
HARD DISK TOOLKIT

$9.99 w/purchase of any External CD-ROM drive

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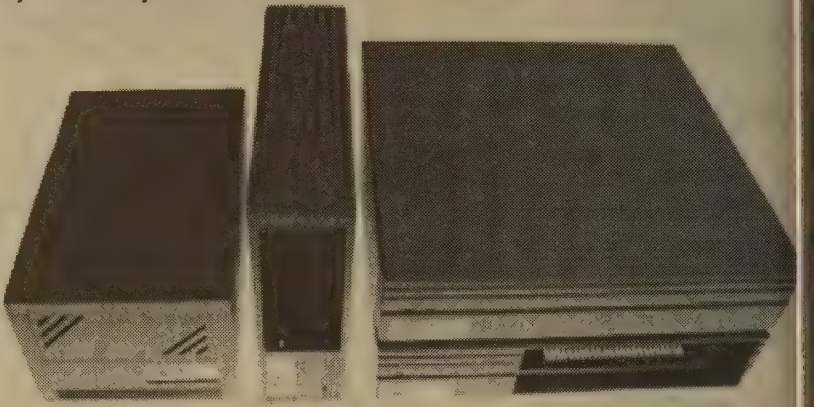


"ONE STOP" SuperSource for Virtually Every SCSI Drive Made today.

NCA's

High Quality

External 3.5" Fixed SCSI Disk Drives

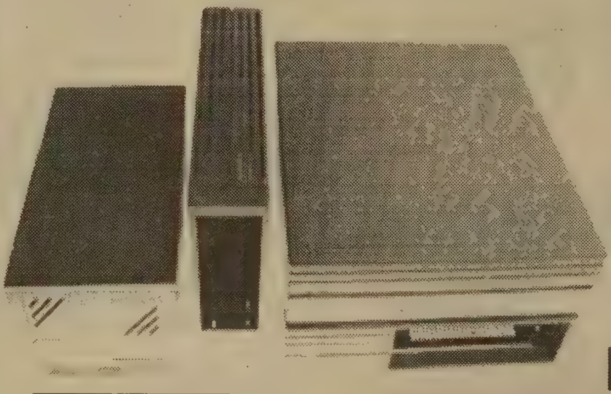
SIZE	INT. DRIVE	SEEK	WARRANTY	PRICE
525Mb	Fujitsu	10ms	2Yr	$288.95
530Mb	Fujitsu	12ms	2Yr	$268.95
730Mb	Quantum Lightening	11ms	2Yr	$278.95
850Mb	Quantum Trailblazer	14ms	2Yr	$338.95
1.0Gb	Quantum Fireball	11ms	2Yr	$388.95
1.0Gb	Conner CPS1060	10ms	5Yr	$388.95
1.0Gb	Conner 1080W	FAST WIDE	5Yr	$488.95
1.0Gb	Conner CPS1080	11ms	5Yr	$388.95
1.0Gb	IBM	10.5ms	5Yr	$388.95
1.0Gb	Fujitsu M1606S	10ms	3Yr	$418.95
1.05Gb	Seagate 31230N	9ms	5Yr	$488.95
1.05Gb	Seagate-Fast Wide	9ms	5Yr	$528.95
1.2Gb	HP3724S	9.5ms	5Yr	$478.95
2.0Gb	Micropolis	8.5ms	5Yr	$998.95
2.1Gb	Quantum XP32150S	8.5ms	5Yr	$964.95
2.1Gb	Quantum XP32150SW	Fast SCSI-2	5Yr	$1008.95
2.14Gb	Conner 2105S	8.5ms	5400rpm	$778.95
2.14Gb	Conner CFP2107S	8.5ms	7200rpm	$848.95
2.1Gb	Seagate ST32430N	9ms	5Yr	$888.95
2.1Gb	Seagate ST32430W	Fast Wide	5Yr	$958.95
2.1Gb	Seagate ST32550N	9ms	5Yr	$1018.95
2.1Gb	Seagate ST32550W	Fast Wide	5Yr	$1098.95
2.1`Gb	Quantum 2100S	8.5ms	5Yr	$728.95
2.2Gb	Quantum VP32210S	8.5ms	5Yr	$768.95
2.2Gb	Quantum VP32210SW	8.5ms	5Yr	$874.95
2.1Gb	HP3725S	8.9ms	5Yr	$828.95
2.17Gb	Fujitsu	8.5ms	5Yr	$798.95
2.3Gb	IBM	7.5ms	5Yr	$1168.95
4.0Gb	Micropolis	8.5ms	5Yr	$1298.95
4.2Gb	Conner CFP4207S	8.5ms	7200rpm	$1148.95
4.3Gb	Quantum XP34301GPS	8.5ms	7200rpm	$1098.95
4.3Gb	Quantum XP34301SW	8.5ms	7200rpm	$1098.95
4.3Gb	Seagate 15230N	9ms	5Yr	$1118.95
4.3Gb	Seagate 15230W	FAST Wide	5Yr	$1248.95
4.3Gb	Seagate 15150N	8ms	5Yr	$1438.95
4.3Gb	Seagate 15150W	Fast Wide	5Yr	$1484.95
4.3Gb	Quantum XP34300S	8.5ms	7200rpm	$1578.95
4.3Gb	Quantum XP34300SW	8.5ms	7200rpm	$1638.95
4.5Gb	IBM-Ultra Star XP Series	8ms	7200rpm	$1598.95

NCA's

High Quality

External FH Fixed SCSI Disk Drives

SIZE	MAKE	SEEK	WARRANTY	PRICE
9.0Gb	Seagate 410800N	10ms	5Yr	$2499.95
9.1Gb	Micropolis 1991	10ms	5Yr	$2299.95
9.1Gb	Micropolis 1991AV	Audio/Visual	5Yr	$2499.95



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Quality Built SCSI SubSystems Since 1988

NCA's

High Quality

External Fixed SCSI Backups

SIZE	MAKE	MODEL	TYPE	PRICE
250Mb	WangTek	5150ES	1/4"	$405
525Mb	WangTek	5525S	1/4"	$515
1.5Gb	Exabyte	FS1G		$899
2.5Gb	Exabyte	EXB8205	8mm	$1389
5.0Gb	Exabyte	EXB8505	8mm	$2279
2.0Gb	HP	35470	4mm	$864
2.0Gb	WangDat	3100	4mm	$845
5.0Gb	Exabyte	EXB4200C	4mm	$965
2-4.0Gb	HP	35480	4mm	$947
4-8.0Gb	WangDat	3200	4mm	$889
4-8.0Gb	WangDat	3400Dx	4mm	$1088
4-8.0Gb	HP	C1533A	4mm	$1117

EXTERNAL SCSI CD ROMs:

SIZE	MODEL	SEEK	TRANSFER	PRICE
TOSHIBA	5301B	150ms	600Kb	$308
NEC	6Xe	145ms	900kb	$585
Plextor	Six-Speed		900kb	$564
Plextor	Quad-Speed 256 CACHE		600kb	$408
PIONEER	124X Quad-Speed	150ms	676Kb	$308
Backpack	DOUBLE-SPEED	250ms	300kb	$297
Backpack	QUAD-SPEED	300ms	600kb	$384
Addonics	Double-Speed			$225
Addonics	QUAD-SPEED			$310

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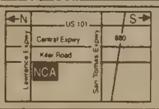

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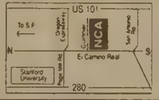

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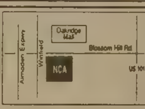

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962 Blossom Hill Rd. (Across Oakridge Mall)
Mon-Fri: 10am-8pm; Sat & Sun 10am-7pm
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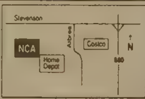

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40521 Albrae St. (Next to HOME DEPOT)
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Corporate, Dealers, Educational
(800) 961-1200
Fax: (408) 739-2420

Mail Order Sales
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M8

TAPE BACKUPS

HEWLETT PACKARD

The most reliable SCSI Tape Backups for MAC, PC, SUN or Silicon Graphics

NEW! **2.0GB SCSI-2, 4mm, 3.5"**
C1534A **Internal DAT TAPE DRIVE**
•2GB of Data on a Single Cartridge • Avg. 50sec. File Find (Fastsearch) • 183Kb/s Transfer Rate • Uses 60 & 90 meter Cartridges • Compliant with all DDS DAT Drives
$699.95

NEW! **4.0GB SCSI-2, 4mm, 3.5"**
C1536A **Internal DAT TAPE DRIVE**
•Typically 4GB of Data on a Single Cartridge • Avg. 50sec. File Find (Fastsearch) • 366Kb/s Transfer Rate • Uses 60 & 90 meter Cartridges • Compliant with all DDS DAT Drives
$799.95

4GB *External* 4mm 3.5 SCSI DAT TAPE BACKUP

•732 Kbytes/Sec Transfer Rate (Sustained)
• 5 MB/ Sec (Synchronous)

INCLUDES: ONE CARTRIDGE & NOVABACK BACKUP SOFTWARE

35480 **$987.95**

SCSI 4mm DAT

CAPACITY	MODEL	INT.	EXT.
2.0GB	35470 DAT	$754.95	$864.95
2-4GB	35480 DAT (bare drive)	$848.95	$947.95
4-8GB	C1533A	$1009.95	$1117.95

HP Mounting Bracket for DAT tape drive $35.95

WangDAT™

3400DX DAT Tape Backup

Internal 4-8GB **$984.95**
External $1088.95

SCSI 4mm DAT

CAPACITY	MODEL	INT.	EXT.
2.0GB	3100 DAT	$745.95	$845.95
4-8GB	3200 DAT	$789.95	$889.95

MicroSolutions

Computer Products

backpack
Tape Drive

350MB Parallel Port External Tape Backup

- ◆ 2 Year Warranty
- ◆ QIC 80 uses 2120 tapes
- ◆ Software for unattended backups
- ◆ Twice as fast as internal floppy drive
- ◆ Window and DOS Software Included

$279.95

800MB Parallel Port External Tape Backup

- ◆ 2 Year Warranty
- ◆ *TRAVAN TECHNOLOGY*
- ◆ Software for unattended backups
- ◆ Window and DOS Software Included

$304.95

TAPE•STOR TAPE BACKUPS

CONNER

420MB 420FBE
INTERNAL $134.95
EXTERNAL $279.95

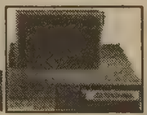
800MB TST800 (TRAVAN TYPE DRIVE)
INTERNAL $185.95
EXTERNAL $286.95

1.7GB TSM1700
INTERNAL $309.95

4.0GB 4000RFBC
INTERNAL $519.95

WANGTEK

SCSI Tape Drive



CAPACITY	MODEL	INT.	EXT.
250MB	5150S	$305.95	$405.95
525MB	5525S	$475.95	$515.95

Trakker™

PARALLEL PRINTER PORT
EXTERNAL TAPE BACK-UP SYSTEMS

RUNS OFF PARALLEL PRINTER PORT

CAPACITY	MODEL/TYPE	EXTERNAL
350MB TRAKKER	350	$275.95
800MB TRAKKER	800	$304.95

POWER TAPES

HIGH CAPACITY TAPE DRIVES

1.0GB PT-10
DC 6000
• 525MB native
• 1.05GB compressed
• Uses QIC-525
INTERNAL $669.95
EXTERNAL $749.95

2.0GB PT-25
DC 6000
• 1.2GB native
• 2.48GB compressed
• Uses QIC-1GB
INTERNAL $939.95
EXTERNAL $1099.95

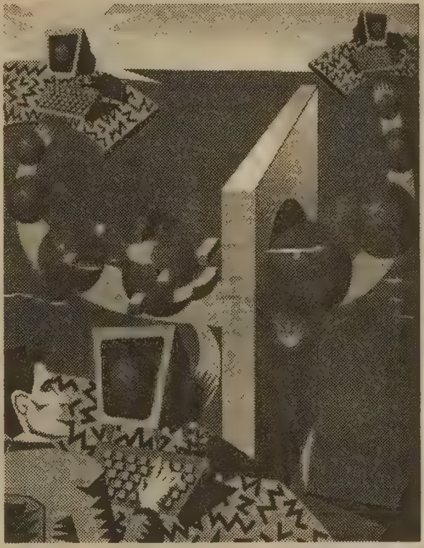
4.0GB PT-50
DC 6000
• 2.08GB native
• 4.08GB compressed
• Uses QIC-2GB
INTERNAL $1149.95
EXTERNAL $1379.95

novastor® CORPORATION

BACKUP SOFTWARE FOR THE PROFESSIONALS

- •Automatic configuration
- •Built-in scheduler and user-created macros for transparent operation
- •Easy operation from batch files
- •Extremely Fast operation
- •Full Mouse Support
- •Intuitive point-and-shoot file selection
- •Logging options for error reporting
- •Full restore functions to different directories or files

NOVàWARE® Products:



$64.95 OS/2 Version

$34.95 Windows '95/NT Version True 32-Bit

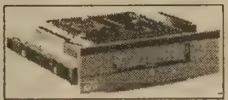
$64.95 MAC Version

$249.95 Novanet JR. 50 Users

$439.95 Novell-NLM Unlimited Users

COLORADO MEMORY SYSTEMS

HIGH QUALITY
RELIABLE
TAPE BACKUPS



RUNS OFF FLOPPY PORT

CAPACITY	MODEL/TYPE	INTERNAL
350MB	DJ30 JUMBO350	$124.95
800MB	T-1000 (TRAVAN TYPE DRIVE)	$159.95
800MB	T-1000 (with tape & Window s 95 Software)	$189.95
1.4GB	DJ50 JUMBO1400	$239.95

350MB UPGRADE KIT (FROM 250MB TO 350MB) $49.95
EXTERNAL KIT WITH CARD AND CABLES KE-10 .... $109.95
EXTERNAL TAPE PORT AB-11 .... $26.95
FC-20 TAPE CONTROLLER, WITH CABLES $85.95
TC-15 HIGH PERFORMANCE 16-BIT CONTROLLER $179.95

EXABYTE® FS1G

1.5 GB SCSI Tape Storage

COMPLETE SYSTEM INCLUDES:

- •Internal FS1G Tape Drive
- •Adaptec 16-Bit SCSI Controller Card
- •File Secure Software •One Data Cartridge
- •Up to 30 MB/Min. Transfer Rate

$695.95

External FS1G Kit. $899.95
Internal Unit (2501) $479.95

4mm DAT Cartridge

CAPACITY	MODEL	INT.	EXT.
5GB	EXB-4200C	$855.95	$965.95

2.5 GB 8mm DAT Subsystem

CAPACITY	MODEL	INT.	EXT.
2.5GB	EXB-8205	$1279.95	$1389.95

5 GB 8mm DAT Subsystem

CAPACITY	MODEL	INT.	EXT.
5.0GB	EXB-8505	$1988.95	$2279.95

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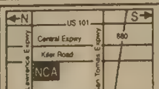

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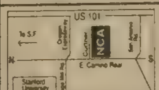

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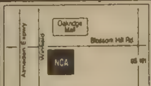

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Stevenson
NCA
Home Depot
Costco
880

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M3

REMOVABLES

OPTICALS

FUJITSU

230MB Rewritable, Removable Optical SCSI Drives

External SCSI 230MB, 3.5" Rewritable Optical

- External optical drive
- Using 2512 internal
- Includes 1 cartridge
- Fast seek time
- 3600RPM
- 256K Cache
- Software for MAC(free upon request)

$\$639^{95}$

Internal 230MB, 3.5" Rewritable Optical

- Bare optical drive
- 2512
- Low Profile, Only 1"
- 3600RPM
- 256K Cache
- Fast Seek Time

$\$525^{95}$

HEWLETT PACKARD

1.3GB SCSI IIMultifunction Rewritable & WORM Drive

- HP C1716T

INTERNAL $\$1999^{95}$

EXTERNAL.....$\$2299^{95}$

EXTERNAL
C2550 WITH CARTRIDGE
$\$2419^{95}$

1.3GB Cartridge: $\$99^{95}$

IBM

NEW!

IMAGESTAR FAMILY

230MB, INTERNAL BASIC MAGNEDO REMOVABLE 3.5"	$\$559^{95}$
230MB INTERNAL KIT MAGNEDO REMOVABLE 3.5"	$\$659^{95}$
230MB EXTERNAL MAGNEDO REMOVABLE 3.5"	$\$689^{95}$
1.3GB INTERNAL MO 5.25" REMOVABLE HH (SINGLE).......	$\$1739^{95}$
1.3GB EXTERNAL MO 5.25" REMOVABLE FH (SINGLE).......	$\$2075^{95}$

FLOPPY DRIVES

TEAC	1.44MB 3.5"	$\$37^{95}$
	1.2MB 5.25"	$\$45^{95}$
	1.2/1.44MB Dual Drive	$\$91^{95}$
MITSUMI	1.44MB 3.5"	$\$29^{95}$
	1.2MB 5.25"	$\$39^{95}$

With bracket on any floppy drive, add $\$6$

RECORDABLE CD DRIVES

HEWLETT PACKARD

NEW!

Internal SCSI-2 650MB, 5.25" Recordable CD Drive

HP SureStore CD-Writer 4020i

Comes with a complete software suite for creating custom CDs, along with the necessary media, cards, and cables to begin recording immediately.

- **C4324A**
- 650MB, 74 minutes audio recording
- <390ms access time
- Write speed: 1x(150KB/sec), and 2x (300KB/sec)
- Read speed: 1x, 2x, and 4x (600KB/sec)
- 1MB recorder buffer

$\$1049^{95}$

REMOVABLES

NEW! THE IOMEGA ZIP DRIVE

iomega

External SCSI-II 100MB Drive

- Easy to expand your computer's storage
- Backup quickly and easily
- Includes Zip Tools software
- Create, use, or share files
- Create a multimedia library
- Store large scanned or downloaded files
- Compatible with both System 7.X **AND** Windows

$\$199^{95}$

SyQuest

88MB SYQUEST REMOVABLE

External 88MB Drive

- 88MB Cartridge
- Cables
- Reads & Write Both 44 & 88 MB
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

$\$375^{95}$

Internal Bare Drive .... $\$259^{95}$

105MB 3.5" SYQUEST REMOVABLE

External SCSI 105MB Drive

- 14ms Seek Time
- 105MB Cartridge
- Cables
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

$\$375^{95}$

Internal SCSI Bare Drive .... $\$233^{95}$

Internal IDE Bare Drive .... $\$179^{95}$

SYQUEST MEDIA

CAPACITY	SINGLE	5-PACK
44MB Cartridge (5.25")	$\$46^{95}$	$\$225^{95}$
88MB Cartridge (5.25")	$\$52^{95}$	$\$255^{95}$
105MB Cartridge (3.5")	$\$57^{95}$	$\$275^{95}$
135MB Cartridge (3.5")	$\$29^{95}$	$\$174^{95}$
200MB Cartridge (5.25")	$\$79^{95}$	$\$389^{95}$
270MB Cartridge (3.5")	$\$63^{95}$	$\$310^{95}$

135MB 3.5" SYQUEST REMOVABLE

NEW!

External SCSI-II 135MB Drive

- 13.5ms seek time
- 135MB Cartridge
- Cables
- Installation Software
- 8 sec. average start time; stop time 10 sec. average
- MTBF 200,000 hours

$\$235^{95}$

Internal IDE Bare Drive .... $\$189^{95}$

200MB SYQUEST REMOVABLE

External 200MB Drive

- 200MB Cartridge
- Cables
- Installation Software (for MAC)
- PC Software Included With Controller Purchase

499^{95}

Internal SCSI Bare Drive .... $\$357^{95}$

270MB SYQUEST REMOVABLE

External SCSI Drive

- External 270MB 3.5" SCSI Removable Cartridge Drive
- Unlimited Storage Capacity
- 270MB External Drive
- Cables & Software for MAC
- 13.5ms Seek Time
- Includes one cartridge

$\$467^{95}$

Internal Bare IDE Drive .... $\$333^{95}$

Internal Bare SCSI Drive .... $\$338^{95}$

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CONTROLLER CARDS

SCSI CONTROLLERS

adaptec

AIRport™ 2000

Wireless infrared port for simple, quick file transfer between PCs.

- Features APA-9320 infrared adapter
- Supports speeds from 9,600Kbps thru 115,200Kbps
- File transfer and synchronization software included
- Custom lens and two LEDs for increased range
- Three power options for flexibility
- Simple connections to the PC serial port
- Dual position design for convenience

AIRport 2000
adaptec

NEW!

$\$94^{95}$

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
AHA-1460	Slim SCSI PCMCIA SCSI Card	$\$195^{95}$
1505	TOTAL CD 16-BIT SCSI-II	$\$55^{95}$
1515	Total Connect ISA to SCSI host adapter w/ BIOS	$\$85^{95}$
1522	16-BIT 7HD/2FD KIT	$\$135^{95}$
1542CP	BUS MASTER COMPLETE KIT	$\$235^{95}$
2825VL	TOTAL ADVANTAGE VL	$\$155^{95}$
2842A	Fast SCSI-II VESA	$\$231^{95}$
AHA-2940	PCI SCSI MASTER RISC-BASED I/O	$\$249^{95}$
AHA-2940W	PCI FAST-WIDE SCSI	$\$304^{95}$
AHA-2940UW	Ultra Wide PCI host adapter	$CALL
APA-348	SlimSCSI PLUS	$\$119^{95}$
APA-358	SlimSCSI EPP	$\$155^{95}$
AVA-4510	Card Park Dual Slot ISA to PCMCIA adapter	$\$177^{95}$
3940	Twin Channel PCI	$\$405^{95}$
3940W	Twin Channel PCI wide	$\$474^{95}$
3985	PCI RAID Adapter w/ 3RISC Processors	$\$709^{95}$

DTC DATA TECHNOLOGY

SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
DTC3130B	PCI 32-Bit PCI SCSI Bus Master w/Bios	$\$119^{95}$
DTC3274VL	SCSI-II Bus Mastering	$\$179^{95}$

qlogic Corp.

FAST!SCSI VESA FL

Host Adapter Card for the VESA Bus

- Patented 400 Series high-speed SCSI processor
- CorelSCSI for CD-ROM & HDD included FREE
- Uses a single 32-bit EISA slot
- Comprehensive software support
- 50-Pin internal SCSI cable with support for 3 devices provided
- Floppy connector supports 2 floppy drives
- Supports up to 7 SCSI devices

$\$189^{95}$

Host Adapter Card for the PCMCIA Bus .... $\$164^{95}$

Host Adapter Card for the ISA Bus FL .... $\$115^{95}$

FAST!SCSI PCI Basic

Host Adapter Card for the PCI Bus

- High speed, single-chip SCSI processor
- Uses a single PCI slot
- SCAM level 2 upgrade
- Supports Fast SCSI-2 (10MB/sec.)
- Comprehensive software support
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high density external connector
- 50-pin internal connector including ribbon cable with support for 3 internal devices
- Supports up to 7 SCSI devices

$\$119^{95}$

FAST!SCSI IQ PCI Wide

Host Adapter Card for the PCI Bus

- Bus Master
- Uses a single PCI slot
- Fast(10MB/sec.) & Wide(20MB/sec)SCSI cabability
- High speed ISP1020 12 MIPS RISC SCSI processor
- Supports up to 15 SCSI devices

$\$295^{95}$

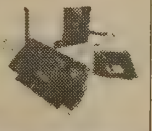
FAST!SCSI IQ PCI-10

Host Adapter Card for the PCIA Bus

- 12 MIPS RISC SCSI processor
- Over 4000 512-byte block I/Os p.s.
- Uses a single PCI slot
- Supports Fast SCSI-2 (10MB/sec.)
- CorelSCSI for CD-ROM & HDD software-FREE
- 50-pin high-density internal connector, including ribbon cable with support for 3 internal devices

$\$205^{95}$

BUSLOGIC



SCSI CONTROLLERS

MODEL	DESCRIPTION	PRICE
KT545C	ISA Bus Master Fast SCSI Adapter Kit	$\$208^{95}$
KT445C	Bus Master Fast SCSI Kit for VL Bus	$\$195^{95}$
KT757C	FASTWIDE SCSI Card	$\$348^{95}$
KT930C	32-Bit Bus Master Fast SCSI for PCI Local Bus NEW!	$\$144^{95}$
KT946C	Bus Master Fast SCSI for PCI Local Bus	$\$254^{95}$
KT956C	WIDE PCI Card	$\$307^{95}$

IDE CONTROLLERS

NCA'S STANDARD IDE

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
211	2HD/2FD W/16550, 1PAR, 1GAME	$\$25^{95}$
223EH	2HD/2FD for VESA LOCAL BUS 16550 I/O	$\$44^{95}$

BUSLOGIC

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
KP510A	IDE Cache Contoller For PC/AT Sys.	$\$89^{95}$
KP410A	IDE Cache Controller for VLB	$\$119^{95}$
KP910A	IDE PCI Cache Controller	$\$165^{95}$

PROMISE TECHNOLOGY,INC.

IDE CACHING CONTROLLERS

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
DC-200	ISA IDE 4HD/2FD 2.88MB Floppy support.	$\$87^{95}$
DC-420VLB	VESA IDE 512K Cache	$\$95^{95}$
DC-4030-VL-2	VESA IDE 2.88MB support 4HD/2FD	$\$105^{95}$
DC-200M	ISA IDE 512K Cache 4HD/2FD 2.88 Support	$\$91^{95}$
DC2032	ISA Caching controller	$\$123^{95}$
DC-2300+	E-IDE w/16550 IO	$\$59^{95}$
EIDE	*MAX*-16-bit enhanced IDE controller	$\$28^{95}$

gsi™ Intelligent Accelerator/IDE Boards

IDE CONTROLLERS

MODEL	DESCRIPTION	PRICE
GSI 11	8-Bit 4FD/Tape Accelerator Board	$\$45^{95}$
GSI 18	16-Bit 2 IDE Devices	$\$37^{95}$
GSI 21	16-Bit 2FD/Tape Backup	$\$57^{95}$
GSI 32	16-Bit Multi Port IDE/Tape & I/O	$\$119^{95}$
GSI 4C	16-Bit 8-IDE Devices	$\$124^{95}$
GSI 1645-V1	32-Bit VESA FAST ATA-2 E-IDE (2 DRIVE)	$CALL
GSI 1645-V2	32-Bit VESA FAST ATA-2 E-IDE (4 DRIVE)	$CALL

DTC DATA TECHNOLOGY

IDE CONTROLLERS

DTC 2278D VESA Multi I/O 2s/1p/1g Enhanced IDE .... $\$24^{95}$

DTC 2278E VLB Enhaced IDE, Enhanced Parallel: Serial Port .... $\$38^{95}$

DTC 2278EB VLB Enhaced IDE, Enhanced Parallel: Serial Port w/Bios .. $\$42^{95}$

DTC 2278D+ Enhanced IDE Multi-Functional I/O .... $\$33^{95}$

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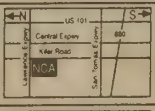

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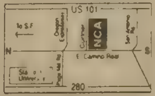

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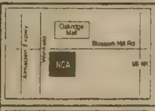

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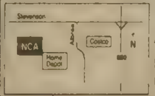

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CD-ROM DRIVES

HITACHI®

Quad-Speed IDE Multimedia Upgrade Kit

- Hitachi internal **Enhanced IDE** quad-speed CD-ROM drive
- Sound Blaster Vibra 16-bit sound card
- 240ms access time
- 600KB/sec data transfer rate
- 29 shareware titles

Sound BLASTER

ENHANCED IDE

$239.95

Quad-Speed IDE Internal CD-ROM Drive

- Hitachi internal **Enhanced IDE** quad-speed CD-ROM drive
- 240ms access time
- 600KB/sec data transfer rate
- 29 shareware titles

ENHANCED IDE

$149.95

TOSHIBA

Quad Speed SCSI-II Internal CD-ROM Drive

5301B
- Caddyless
- **SCSI-II** Fast Quad-Speed CD-ROM
- 150ms/600kb/sec
- Multi-spin/Multi-speed

External for PC or MAC..........$308.95

$209.95

Quad Speed Enhanced IDE Internal CD-ROM Drive

5302B
- Caddyless
- **Enhanced IDE** Quad-Speed CD-ROM
- 150ms/600kb/sec
- Multi-spin/Multi-speed
- 256K buffer

ENHANCED IDE

$159.95

MITSUMI

FX400B

4X

Quad-Speed Enhanced IDE Internal CD-ROM Drive

- Multisession Enhanced IDE
- Software
- Caddyless
- 600KB data transfer rate
- Can co-exist w/second AT CD-ROM

ENHANCED IDE

$149.95

Quad-Speed Enhanced IDE 16-Bit Multimedia Upgrade Kit

- Mitsumi FX-400 Enhanced IDE CD-ROM drive (above)
- Sound Blaster Vibra 16 sound card
- Speakers

Sound BLASTER

ENHANCED IDE

$229.95

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NEW!

Ultra Speed 6X - Six Speed Internal Enhanced IDE CD-ROM Drive

- 900Kb/sec. fast data transfer rate
- 135ms access time
- 128K cache
- 100% Sound Blaster compatible
- MPC level 3 compliant
- Windows 95® compliant
- Video CD & photo CD compatible

ENHANCED IDE

CD56E

$259.95

PLEXTOR

NEW!

Six-Speed SCSI-II Internal CD-ROM Drive

6PLEX

- 900KB/Sec.
- 256K Buffer
- MPC Level 2
- 2 Yr. warranty

4Plex 256K cache.....$309.95

$465.95

NCA's *High Quality*

Featuring Sanyo CD-ROM Drive

Quad Speed SCSI-II Internal CD-ROM Drive

- 600Kb/sec. transfer rate
- 190ms. access time
- 256K cache
- Caddyless
- Includes DOOM, Grolliers 95, & 29 other titles!

CRD-254SH

$159.95

Quad Speed Enhanced IDE Internal CD-ROM Drive

Featuring Sanyo CD-ROM Drive

- Sanyo Enhanced IDE CD-ROM drive
- 600Kb/sec. transfer rate
- 190ms. access time
- 256K cache
- Caddyless
- Includes DOOM, Grolliers 95, & 29 other titles!

ENHANCED IDE

CRD-SIG

$139.95

PIONEER®

DR-UA124X
- Internal Enhanced IDE CD-ROM drive
- 128K built in buffer
- Caddyless
- 150ms/ Fast 614Kb/Sec

ENHANCED IDE

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DR-U124X
- Internal Quad-speed SCSI-II CD-ROM drive
- Caddyless
- 150ms/ Fast 676Kb/Sec

External for PC or MAC: $308.95

$209.95

SONY

Quad Speed Internal SCSI-II CD-ROM Drive With Adaptec SCSI Card

- 600Kb/sec. transfer rate
- 190ms. access time installation software
- Caddyless

CDU-76S

$199.95

Quad Speed Internal Enhanced IDE CD-ROM Drive

- 600Kb/sec. transfer rate
- 190ms. access time
- Caddyless

NEW!

ENHANCED IDE

CDU-77E

$149.95

backpack CD-ROM Drive MicroSolutions

Quad-Speed Parallel Port External CD-ROM Drive

- No Slot plug-n-play
- Motorized tray
- Multisession Kodak Photo CD compatible
- Ideal for Notebooks or Desktops
- DOS OS/2 Device drivers
- Supports new high speed EPP & IEEE 1284 ports

$384.95

Double-Speed Parallel Port External CD-ROM Drive

- 250ms
- 300Kb/sec.
- Double-Speed High Performance Drive
- Ideal for Notebooks or Laptops
- Supplied device drivers
- Multi-Session Photo CD compatible

$297.95

Addonics

Portable External Double Speed Parallel Port CD-ROM Drive

- Portable double speed ATAPi CD-ROM drive - use anywhere
- CADDYLESS - Front tray loading mechanism
- Easy to use - no jumper ID setting
- Built in switchable power supply (100-240 volts)
- Audio output (RCA jack) for audio CD playback
- Concurrent disk access and printing
- Includes cables, driver, and installation disk

$225.95

Portable External Quad Speed Parallel Port CD-ROM Drive

- Portable quad speed ATAPi CD-ROM drive - use anywhere
- CADDYLESS - Front tray loading mechanism
- Easy to use - no jumper ID setting
- Built in switchable power supply (100-240 volts)
- Audio output (RCA jack) for audio CD playback
- Concurrent disk access and printing
- Includes cables, driver, and installation disk

$310.95

NEC

MultiSpin 6Xi

Six-Speed SCSI-II CD ROM Drive

- 900Kb/sec. CD-ROM reader
- 220ms access time
- 256K cache
- Full audio & XA ready
- Multisession Photo CD
- CD-1 (FMV), video CD playback
- Complete with SCSI data cable and interactive tutorial CD

$475.95

External for PC or MAC: $585.95

NCA's *High Quality*

Six Speed SCSI-II CD-ROM Drive

Featuring NEC 6X SCSI-II CD-ROM Drive

- 900Kb/sec. data transfer rate
- 190ms access time
- 256K cache
- Full audio & XA ready
- Multisession Photo CD
- CD-1 (FMV), video CD playback
- Includes DOOM, Grolliers 95, & 29 other titles

NEW!

$379.95

AUDIO CABLES

For most CD-ROMs & Sound Cards

$5.95 Ea.

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THE ORIGINAL CADDY DESIGN

$3.95 Ea.

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HIGH QUALITY UPGRADES

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PHASEWRITER DUAL™

SCSI-II Phase Change 650MB Rewritable Optical & Quad Speed CD-ROM In a Single Drive

Optical Drive Mode erases & writes in a single pass, CD-ROM Mode is CD-ROM XA ready, MPC2 Compliant & Kodak Multi-session CD compatible

Headphone & RCA Jacks, Caddyless CD-ROM, DOS, Windows, OS/2 & Mac compatible

ONE YEAR WARRANTY FOR THE DRIVE, LIFETIME WARRANTY FOR THE MEDIA!!

	REWRITABLE SPECS	CD-ROM SPECS
• Transfer Rate	.870MB/s	600KB/s (4X)
•Avg. Seek Time	165msec.	195msec
• Buffer	256K	256K

External with PC & Mac Drivers

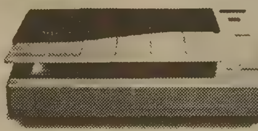
$859⁹⁵

Internal Bare Drive with 650MB Cartridge

$749.95

ARTEC®

24-Bit True Color Flat Bed Scanner



$334.95

INCLUDES

- **SCSI-II/PC or Mac**
- A6000C-Viewstation
- 8.5"x14" scanning area
- 2400x2400 dpi through software interpolation
- Intelligent LCD panel
- Long lasting cold cathode lamp
- 16.8 million colors / 256 grayscale levels

Handheld Grayscale Scanner Kit for Windows

INCLUDES

•SCANNER

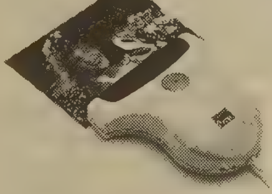
ViewScan™ /gray 256
Missing Line Compensation
TWAIN Compatible

•SOFTWARE

-WalkScan™ Boardless Scanner Adaptor for Portables and Desktop PCs
-GO-CR - OCR Software
-PhotoStacker Plus - JPEG Image Processing Software with AutoStitch

$109.95

Handheld True Color Scanner Kit for Windows



$129.95

INCLUDES

•SCANNER

-ViewScan™ Color 16M A2000C
-Missing Line Compensation
-MagicStitch &
TWAIN Compatible

•SOFTWARE

-GO-CR - OCR Software
-PhotoStacker Pro - Image Processing Software

Handheld Grayscale Scanner

INCLUDES

- ViewScan®/256S
- 800dpi
- 105mm scanning width
- GO-CR - OCR Software
- PhotoStacker™ Plus - JPEG Image Processing Software with AutoStitch

$69.95

ARTEC® MOUSE

LE280

$5.95

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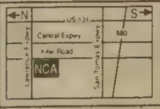

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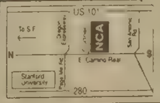

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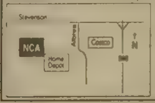

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M6

MULTIMEDIA

DIAMOND
MULTIMEDIA

QUAD-SPEED MULTIMEDIA KITS

Diamond 4000 Upgrade Kit

- Internal quad-speed CD-ROM drive
- 16-bit, wavetable upgradable sound card
- Premium stereo speakers
- 11 hot CD titles
- Quick start video for easy installation

$294⁹⁵

Diamond 500 Quad-speed upgrade kit includes Compton's CD title	$229⁹⁵
Diamond 4400	$295⁹⁵
Diamond 7000	$374⁹⁵
Diamond 8000	$559⁹⁵

CREATIVE Sound BLASTER
CREATIVE LABS, INC.

NEW!

QUAD-SPEED MULTIMEDIA KITS

Sound Blaster Digital Schoolhouse 4X Sound Blaster 16 upgradable IDE stereo sound card, quad-speed IDE CD-ROM drive, speakers, 18 educational CD titles	$329⁹⁵
Sound Blaster Discovery CD 4X Sound Blaster 16 upgradable IDE stereo sound card, quad-speed IDE CD-ROM drive, speakers, 18 entertainment & educational CD titles	$349⁹⁵
Sound Blaster Multimedia Home 4X Sound Blaster 16 upgradable IDE stereo sound card, quad-speed IDE CD-ROM drive, speakers, microphone, 24 CD titles for the whole family	$414⁹⁵
Sound Blaster Performance 4X Sound Blaster 32 wavetable IDE stereo audio card, quad-speed IDE CD-ROM drive, speakers, 24 enertainment CD titles	$404⁹⁵

SOUND CARDS

Sound Blaster 16 Value Edition 16-bit, CD-quality stereo audio with IDE CD-ROM interface for any multimedia application - includes free software	$94⁹⁵
Sound Blaster 16 SCSI-2 16-bit, CD-quality stereo audio with support for any SCSI-2 device - great for any multimedia application - includes free software and microphone	$174⁹⁵
Sound Blaster 32 Wavetable synthesis, CD-quality, stereo audio for music, entertainment, and business applications - includes free software	$159⁹⁵
Sound Blaster AWE32 Wavetable synthesis with SoundFonts and CD-quality, stereo audio for music, entertainment, and business applications - includes free software and microphone	$284⁹⁵

VIDEO, COMMUNICATIONS, UPGRADES, ACCESSORIES

Video Blaster RT300 Digital video capture at 320x240 @ 30fps, no special hardware required for playback, 4 software selectable video inputs, onboard I82750 for video compression - includes Adobe Premiere 1.1A, & Asymetrix Compel PE	$339⁹⁵
Modem Blaster 28.8 V.34 high speed 28.8K fax/modem featuring V.42 bis data compression, V.42 error correction and throughput up to 115,200bps	$154⁹⁵
Modem Blaster 19.2 High speed 19.2 data transmission, digital voicemail/answering machine, software upgradable for future communications technology	$139⁹⁵
Phone Blaster Powerful fax features, voicemail, speakerphone, V.32 bis/14.4K bps fax/modem, and Sound Blaster 16-bit digital audio	$189⁹⁵
Wave Blaster II Game Pack Adds wavetable synthesis to existing 16-bit sound cards for real sounds and digital effects processing - includes special GamePak CD and Wave Blaster II installation software	$124⁹⁵
Advanced Signal Processor Turbocharges the advanced capabilities of Sound Blaster cards	$59⁹⁵

Advanced
GRAVIS

SOUND CARDS

Ultrasound *MAX* $169⁹⁵

16-bit wavetable, 16 stereo channels, expandable to 192 general MIDI instrument set, Dedicated Digital Sound Processor, integrated stereo.

TeleVideo®

MULTIMEDIA

TeleMedia Office Suite

Multimedia Upgrade Kit - With Lotus Smart Suite!

- Quad-speed CD-ROM drive - 600KB/sec transfer rate, <200ms access time, motorized loading tray, Photo CD compatible
- 16-bit ISA, 48 kHz, stereo, CD-quality sound card - Wavetable upgradable, IDE CD-ROM interface, Yamaha OP-3, MIDI port, stereo line in/out, software configurable, jumperless installation
- Amplified 10 watt stereo speaker system - magnetically shielded, 100 - 15,000 Hz frequency response
- Includes Lotus SmartSuite: Lotus 1-2-3, Lotus Ami-Pro, Lotus Freelance, Lotus Organizer, Lotus Approach
- Includes PC-Sig's "World Of Games," over 550 games

$359⁹⁵

TeleMPEG Pro

MPEG Video Graphic Board

Experience full screen, full motion, full color video on your PC and TV with TeleMPEG Pro. Unlike standard MPEG boards, TeleMPEG Pro delivers more than just the ability to play CD movies on your PC - TeleMPEG Pro has a special video out feature that lets you watch CD movies on your TV! You can also play live-action interactive games, watch feature length concerts and movies, or use interactive educational reference manuals - all in 16-bit CD quality sound.

- ISA bus interface
- MPEG Video Standard
- NTSC and PAL composite video output
- Full MPEG Standard (ISO11172) compliant
- Supports OM-1, new Windows multimedia specifications endorsed by Microsoft
- Supports CD-I, Karaoke CD, Video CD v2.0 formats
- 16-bit CD quality stereo sound
- Up to 65,000 colors
- Resolutions up to 1024x768
- Frames Per Second: 30fps (NTSC), 25fps (PAL), 24fps (film) with sustained frame rate
- High quality analog multiplexing video overlay
- Bus free operation without affecting the bandwidth

PC2 Multimedia PC.

OS/2

GENERAL MIDI

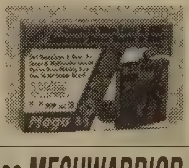
MPEG

$319⁹⁵

TeleWave Q32/SRS

16-Bit Wavetable Sound Board

- Advanced DSP wavetable synthesis based sound board
- Three dimensional true to life SRS surround sound
- 16-bit CD-quality stereo sound
- 128 general MIDI instruments with 51 drum kits
- 100% Sound Blaster, AdLib compatible
- 32 note polyphony and 16 MIDI channels
- Stereo sampling rates from 4 kHz to 48 kHz
- General MIDI & MPU-401 compatible
- Easy installation and jumperless configuration
- Bundled software worth over $900



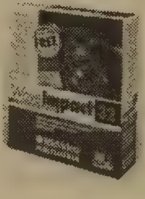
Includes MECHWARRIOR 2!

$135⁹⁵

WaveImpact 32

Wavetable Sound Daughter Board

- Advanced DSP wavetable synthesis daughter board
- 32 note polyphony and 16 MIDI channels
- 128 general MIDI instruments with 51 drum kits
- General MIDI & MPU-401 compatible
- Plug & Play onto TeleSound Pro 16 or Sound Blaster 16 compatible sound board with wave connector
- Includes MIDI Orchestrator Plus, a professional-quality MIDI sequencer



$59⁹⁵

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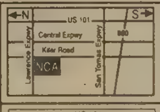

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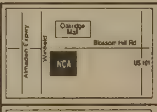

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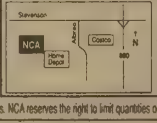

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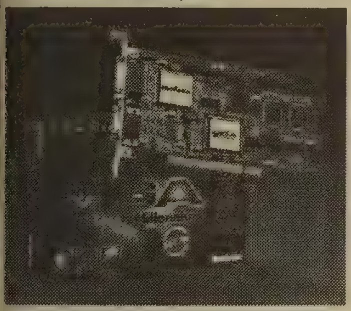
matrox MATROX **MGA**™ POWER GRAPHICS

Introducing MGA Millennium: The New Dimension In Graphics Acceleration

Fast acceleration for graphics, video and 3D at a low cost

NEW!



- Includes FREE enhanced version of NASCAR® Racing and much more!
- MGA 64-bit graphics processor (MGA-2064W)
- Dual ported Window RAM (WRAM) memory technology
- Optimized PCI local bus design
- Accelerated true color, video, 3D and DOS performance
- Resolutions up to 1600x1200 in 256, 65K, 16.7M colors
- 120 Hz flicker-free screen refresh at 1024x768
- Up to 220Mhz DAC for 85Hz refresh at 1600x1200
- Base versions available with 2 or 4MB WRAM
- Upgradable to 4 or 8MB WRAM

2MB PCI version **$339⁹⁵**

4MB PCI version **$469⁹⁵**

2MB Millennium upgrade module....... **$189⁹⁵**

4MB Millennium upgrade module....... **$334⁹⁵**

6MB Millennium upgrade module....... **$479⁹⁵**

miro VIDEO DEDICATED video CAPTURE CARDS

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miroVIDEO DC1

Video Digitizing Directly To Your Hard Disk • Overlays, Titles, Special Effects • Super VHS Quality, PAL/NTSC Video Output

INCLUDES ADOBE PREMIER & FLYING FONTS PRO 3-D ANIMATION SOFTWARE!

MANUFACTURED IN GERMANY!

Hardware Highlights:
- Adjusts video filter
- Digital video encoder
- Supports all video formats
- Compatible with all graphics boards
- On-board Motion JPEG compressor

IN
OUT TO TAPE

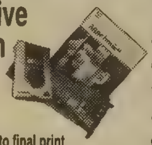
State-Of-The-Art Features:
- No generation loss
- Digital video back up
- Great transition effects
- Instant access to any frame
- Only One VCR for recording & playback
- Non-linear video editing on any Windows PC

$699⁹⁵

Miro's DC1 tv Video Capture Board Delivers Full Screen 640X480 Full Motion 30fps Video Output And Non Linear Audio & Video Editing To The Personal Computer At A Remarkable Price!

miroVIDEO DC1 pro

The Most Comprehensive Desktop Video Solution



- Software for video & sound editing
- Combine analog & digital sequences
- Automate final edit decision list assembly into final print
- Frame-accurate controll of multiple analog & digital video sources

Miro's DC1 tv Video Capture Board and Miro's VIDEO-Mouse bundled! Complete hardware & software pakage for controlling & editing video from analog & digital sources! It's so simple to create professional quality videos!!

$1199⁹⁵

miroVIDEO-Mouse

is part of the miroVideo DC1 pro package & is available seperately for other packages

- Desktop video editing using jog/shuttle knob to control video devices
- Create professional edit decision lists
- Assemble video clips & transactions using VITC time codes

$599⁹⁵

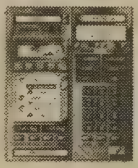
COMMUNICATIONS CENTER

miroCONNECT 34 wave

VOICE MAIL • SPEAKER PHONE • FAX-MODEM • WAVETABLE SOUND • INTERNET ACCESS

28.8 V.34 Communications Center

- User friendly interface
- Multitasking capabilities
- IBM MWAVE DSP-2789 processor (upgradeable)
- Full Duplex Speaker Phone
- Integrated Voice Mail up to 999 boxes
- Automatic Modem/FAX/ Voice operation
- 16-bit Waavetable sound
- CD-ROM interface • Internet software included



$269⁹⁵

miro VIDEO MULTIMEDIA UPGRADE KIT

miroVIDEO 20TD live!

Graphic Card, Video Scaling, Video Capture & TV Tuner All in One! *5-IN-1 SINGLE SLOT SOLUTION!*

- 2 Meg DRAM Windows Accelerator
- Cable-ready TV tuner with 100-station memory
- Video scaling provides full-screen video at 30FPS
- Still-frame video capture 640x480 @ 16.7 million colors
- 30fps video capture- 320x240 @ TV quality
- Feature connector for MPEG player boards
- Includes MPEG sampler on CD-ROM
- MPEG playback w/ software included

Includes MPEG CD-ROM & Compton's Interactive Encylopedia

$379⁹⁵

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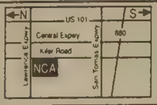

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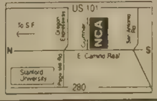

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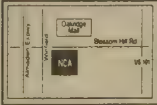

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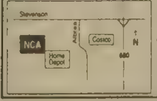

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VIDEO CARDS

Hercules

The Fastest Real-World Windows Accelerator

Dynamite
SuperVGA and Windows Accelerator

Hercules Picture Windows display lets you change your Windows display setting with a click of a mouse!

D301	Dynamite Pro 1MB DRAM ISA Bus	$159^95
D302	Dynamite Pro 2MB DRAM ISA Bus	$199^95
D701	Dynamite Pro 1MB DRAM VLB	$158^95
D702	Dynamite Power 2MB DRAM VLB	$192^95

HERCULES GRAPHITE TERMINATOR

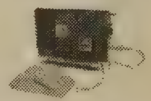
The Complete 64-Bit Solution-SuperStable Refresh Rates up to 150Hz-Unrivaled, World-Class Service & Support

GT1202	2MB DRAM PCI-S3 Trio 64 Chipset	$194^95
GT3040	4MB VRAM VLB-S3 Vision 968 Chipset, High DAC Speed 220Mhz	$494^95
GT3240	4MB VRAM PCI-S3 Vision 968 Chipset, High DAC Speed 220Mhz	$494^95

STINGRAY

S601E Pro	Stingray VLB 1MB DRAM	$99^95
S801	Stingray PCI 1MB DRAM	$104^95
S901V	Stingray 1MB DRAM PCI	$104^95
S1201V	Stingray Video 64 1MB DRAM PCI	$149^95
S1202V	Stingray Video 64 2MB DRAM PCI	$197^95

ATI TECHNOLOGIES INC.



Graphics Pro Turbo-PCI, ISA, VLB
Ultimate True Color Performance for the Graphics and Multimedia Professional **2MB/4MB VRAM** .... **$324^95/$459^95**

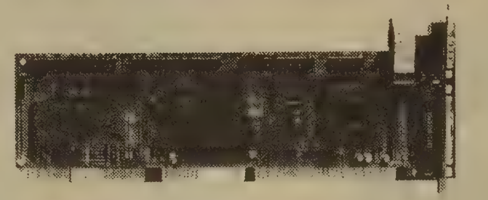
Graphics Expression-PCI, ISA, VLB
Ultimate True Color Performance for the Graphics and Multimedia Professional
2MB DRAM VLB/2MB DRAM PCI/ISA.. $189^95/$209^95

WINTurbo-PCI, ISA, VLB mach 64
Fast 64-Bit VRAM Graphics Accelerator
2MBVRAM .... **$275^95**

VIDEO-IT!-ISA
Low cost, full motion video capture and compression card for Windows .... **$244^95**

XCLAIM GA-PCI for Macintosh
True color graphics accelerator for Macintosh
2MB VRAM/4MB VRAM .... **$274^95/$494^95**

Number Nine
Computer Corporation
Excellence in PC Graphics



9FX Motion 771 / 531 Graphics Accelerators

9FX Motion 771 PCI or VLB 2MB/4MB	$289^95/$439^95
9FX Motion 531 PCI or VLB 1MB/2MB	$178^95/$222^95

9FX Vision 330

64-Bit Power Accelerator

- Resolution exchange
- True hardware zoom
- Place windows
- Stop Box
- Instant status
- ColorPerfect
- Monitor adjustment
- Energy Star

VLB or PCI BUS

1MB........ **$139^95** 2MB........ **$189^95**

IMAGINE 128 GRAPHICS ACCELERATOR

- NEW performance standard with 128-bit acceleration
- 4MB high speed VRAM
- Drawing bandwidth up to 500 million pixels per second
- Two memory windows for simultaneous host and imagine 128 access
- 65,536 colors (16BPP) up to a resolution of 1600x1200 pixels 16.8 million colors (32BPP) up to 1152X864 pixels
- Refresh rates up to 100Hz
- Simultaneous processing of sixteen 8-bit, eight 16-bit or four 32-bit pixels

PCI BUS
4MB VRAM

$659^55

Imagine 128-1600 .... **$889^95**

DIAMOND

ACCELERATING IN GRAPHICS & MULTIMEDIA

SPEEDSTAR PRO

Video Cards

Stealth SE PCI or VLB 1MB DRAM 64-Bit	$109^95
Stealth 64 DRAM PCI or VLB 1MB DRAM/2MB DRAM	$137^95/$188^95
Stealth 64 Video PCI or VLB 2MB VRAM/4MB VRAM	$328^95/$474^95
Stealth Video PCI or VLB 1MB DRAM/2MB DRAM	$178^95/$235^95
SpeedStar 64 2120/2200 ISA 1MB DRAM/2MB DRAM	$148^95/$198^95
SpeedStar Pro 1100 PCI, ISA or VLB 1MB DRAM	$107^95
Stealth Video 3200 PCI or VLB 2MB VRAM	$289^95

Jazz Multimedia **Jakarta**

MPEG Video

NEW!

Graphics Accelerator

- Dramatically accelerates all Multimedia CD's including games & MPC titles
- 2MB window accelerator
- 24-bit, 16.7 million colors
- Plays full motion, full screen MPEG Video CDs with CD quality sounds
- Available in PCI or VLB

$379^95

Port of Entry

- Direct connect expansion card for Jakarta
- Cable-ready television tuner
- Channel presets-select groups of channels such as sports, news, or comedy-then select from only those channels
- Frame capture, video capture
- Three video inputs and two stereo audio inputs

Works with Jazz MPEG video only!

$139^95

Projector

- Enjoy thousands of software titles, PC games & MPEG Video DC movies that play on your PC-and watch them on your TV
- Tape any software program or presentation right off your PC screen to VHS, BETA or Hi-8 videotape anywhere
- Use low-cost TV monitors for presentations

Works with Jazz MPEG video only!

$109^95

Jakarta Bundle-Includes Jakarta & Port of Entry in one package!...... **$499^95**

SVGA VIDEO CARDS

SVGA 1024K 1024x768	$59^95
SVGA VESA Local Bus	$69^95
SVGA PCI 1024x768	$79^95

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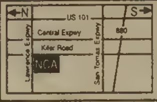

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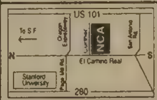

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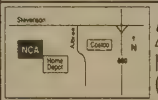

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VIDEO MONITORS

ViewSonic®
State of the Art

ViewSonic-15GA
- 15" RGB color monitor w/built in stereo multimedia speakers
- 1280X1024
- Non-Interlaced
- TCO compliant
- .27 dot pitch

$\$528^{95}$

ViewSonic-15ES 1024 x 768 .28 dot pitch .... $\$395^{95}$
ViewSonic-15GS 1280 x 1024 .27, TCO, OVC .... $\$437^{95}$

ViewSonic-17GA
- 17" RGB color monitor built in multimedia stereo speakers
- 1280x1024 .27 dot pitch
- Non-Interlaced
- Flat Screen

$\$875^{95}$

ViewSonic-17GS 1280x1024, .27, TCO, 50-160Hz .... $\$785^{95}$
ViewSonic-17PS 1600x1280, .25, TCO, 50-160Hz, on-screen controls .... $\$925^{95}$

ViewSonic-20PS
- 20" RGB Color Monitor
- 1600x1280, .28 dot pitch
- Non-Interlaced
- Dual Page Display

$\$1478^{95}$

ViewSonic-20G 1600x1280, digital controls, DQ-DAF Gun ...... $\$1318^{95}$

ViewSonic-21PS
- 21" Color Monitor
- 1600X1280
- .25 dot pitch
- Non-Interlaced

$\$1839^{95}$

HITACHI®

SuperScan™ Pro15s
- 15" SVGA, Non-interlaced
- 1280x1024, .28 dot pitch
- Flat Screen
- CM1587

$\$398^{95}$

SuperScan™ CM1711
- 17" SVGA Non-Interlaced
- 1600x1280, .26 dot pitch
- Flat Screen
- 3 year warranty

$\$889^{95}$

SuperScan™ Pro 20
- 20" SVGA Non-Interlaced
- 1600x1280, .28 dot pitch
- Flat Screen
- CM2011

$\$1369^{95}$

CM2198-514: 21" SVGA (NI) 1600X1280, .28dpi .... $\$1779^{95}$
CM2198-513: 21" 1600x1280 76Hz .... $\$1979^{95}$

NOKIA
Engineered in Europe for the World
Workstation & CAD Quality Monitors

- Autosync
- Digital Controls with Menu
- Full Screen Power Save
- MicroEmission

449E 15" Non-Int. 1024x768, 80Hz refresh .... $\$429^{95}$
447L 17" Non-Int. 1024X768,80Hz, .28 dot pitch **w/ built in stereo speakers** .... $\$685^{95}$
447W 17" Non-Int. 1280X1024, 80Hz, .26 dot pitch **w/ built in stereo speakers** $\$839^{95}$
447X 17" Non-Int. 1280X1024, 110Hz, .25 dot pitch .... $\$975^{95}$
445X 21" Non-Int. 1600x1280, 120Hz refresh .... $\$2029^{95}$

NCA's
HIGH QUALITY!

14" SVGA MONITOR
- Non-Interlaced
- .28 dot pitch
- 1024x768
- Energy Star Compliant

$\$219^{95}$

15" SVGA MONITOR
- Non-Interlaced
- .28 dot pitch
- 1280x1024
- Energy Star Compliant

$\$299^{95}$

EDGE TO EDGE DISPLAY!
GREEN MONITORS!

iiyama VISIONMASTER™
MF-8617 17", .26 dot pitch, Digital Control, Energy Star Compliant $\$769^{95}$

NANAO®
F2-15 15" .28 dot pitch, 1280x1024 66Hz TCO .... $\$565^{95}$
F2-17 17" .28 dot pitch, 1280x1024 66Hz TCO .... $\$909^{95}$
F2-17ex 17" .26 dot pitch 1600x1200 66Hz TCO .... $\$1015^{95}$
T2-17ts Diamond Trinitron, 1280x1024, .25 dot pitch .... $\$1075^{95}$
T217-17" Trinitron Tube, N/I 1280x1024, .25 dot pitch .. $\$1299^{95}$
T220 20" Trinitron Tube, N/I 1600x1280, .25 dot pitch ... $\$1985^{95}$
F2-21 21" 1600X1200, .28 dot pitch, 72Hz .... $\$2024^{95}$
FX2-21 21" 1600X1200, .26 dot pitch, 82Hz .... $\$3075^{95}$

MAG INNOVISION
DIGITAL CONTROLS

DX15F 15" Non-Int. 1280x1024, .28 dot pitch .... $\$388^{95}$
DX17F 17" Non-Int. 1280x1024, .28 dot pitch .... $\$759^{95}$
MXP17F 17" Non-Int. 1600x1280, .26 dot pitch .... $\$898^{95}$
MX21F 21" Non-Int. 1600x1280, .26 dot pitch .... $\$1709^{95}$

PRINCETON Ultra 17 BY MAG
- 17" SVGA Color Monitor
- 1280X1024, .28 dot pitch
- 76 Hz refresh rate
- Non-Interlaced
- Microprocessor-based digital controls

NEW!

$\$599^{95}$

NEC
High Quality Multisync Color Monitors For PC or Mac

XV14
VALUE SERIES
- 14", .28 dot pitch
- 1024x768, 70Hz refresh
- 3 yr. warranty
- Energy Star

$\$339^{95}$

XV15
VALUE SERIES
- 15", .28 dot pitch
- 1280x1024, 60Hz refresh
- Non-Interlaced
- Flat screen

$\$479^{95}$

XV17
VALUE SERIES
- 17", .28 dot pitch
- 1024X768
- Up to 60Hz refresh

$\$799^{95}$

XE15
ENTERPRISE SERIES
- 15", .28 dot pitch
- 1024x768, 76Hz refresh
- XGA-2 Compatible
- Opticlear, digital controls

$\$598^{95}$

XE17
ENTERPRISE SERIES
- 17", .28 dot pitch
- 1024x768, 76Hz refresh
- DPI on-the-fly
- Opticlear, digital controls

$\$1049^{95}$

XE21
ENTERPRISE SERIES
- 21", .28 dot pitch
- 1280x1024
- Up to 60Hz refresh
- Digital controls

$\$1889^{95}$

XP15
PROFESSIONAL SERIES
- 15", .28 dot pitch
- 1024X768
- 76Hz refresh
- Opticlear
- Access bus technology

$\$629^{95}$

XP17
PROFESSIONAL SERIES
- 17", .28 dot pitch
- 1280x1024
- Opticlear
- Up to 76Hz refresh
- Access bus technology

$\$1109^{95}$

XP21
PROFESSIONAL SERIES
- 21", .28 dot pitch
- 1600X1200
- Opticlear
- Up to 70Hz refresh
- Access bus technology

$\$2289^{95}$

SONY

1425CPD
- 14" Trinitron Color Monitor
- .25 dot pitch, MPR-II
- 50-90Hz
- Energy Star

$\$315^{95}$

CPD-15SF
- 15" Color Monitor
- 1280X1024, .25 dot pitch
- Non-Interlaced

$\$497^{95}$

GDM-17SE1
- 17" Color Monitor
- 1280X1024, .25 dot pitch
- Non-Interlaced

$\$1094^{95}$

CPD-17SF
- 17" Color Monitor
- 1280x1024, .25 dot pitch
- Non-Interlaced

$\$879^{95}$

GDM20SE
- 20" Color Monitor
- State Of The Art
- 1600x1200
- .30.dot pitch
- Non-Interlaced

$\$1989^{95}$

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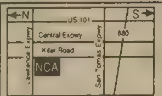

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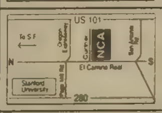

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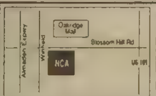

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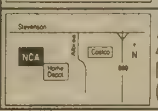

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HIGH QUALITY UPGRADES

CYBERMAXX
VIRTUAL REALITY
COMPATIBLE

Total Immersion

CyberMaxx

Maxximum 3-D Sight and Sound. High fidelity, adjustable headphones and two 180,000 pixel, active-matrix, color LCDs, deliver expansive sterophonic sound and vivid, compelling, Immersive™ images compatible to arcade VR displays COSTING MANY TIMES MORE!

Maxximum Field-of-View. A wide field of view provides big-screen excitement and enhances your Immersive™ VR experience.

Maxximum Head Tracking. Real-time yaw, pitch and roll head tracking lets you explore every corner of the game and experience every pixel of this new world. Track up, down, right, left, backward and forward. You are limited only by your imagination.

Maxximum Compatibility. CyberMaxx was designed for use with IBM PC compatible computers, and uses your system's existing VGA card. CyberMaxx adaptors are also available for the Macintosh computer and your favorite video game platforms.

Maxximum Affordability. CyberMaxx is the first high-quality VR headset offered at a consumer-friendly price...and we include exciting programs at no additional cost!

Maxximum Fun. Now you can play cutting-edge games in 3D virtual reality on your home PC and lose yourself in a world borne of fantasy. Now-through the high technology magic of 3D color imaging, 3D stereo sound, and triple-axis head tracking-you can realistically go wherever your imagination takes you.....and more!

"The most exciting new product......since the Nintendo Entertainment System"
-The Chicago Tribune-

"Equivalent to systems that cost ten times as much."
-The CyberEdge Journal-

"One of the Season's ultimate gotta-have-'em gadgets."
-PC Magazine-

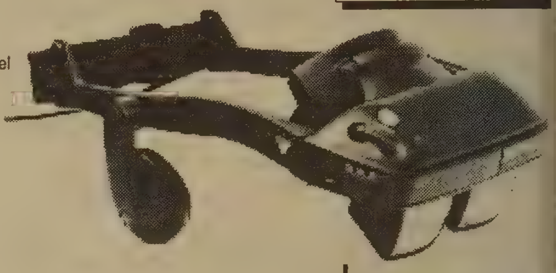
$759^{95}

VIRTUAL i-O

VIRTUAL ENTERTAINMENT

Imagine that the Ultimate PC gaming peripheral is also a personal projection TV
Now imagine only eight ounces!

Virtual i-glasses!™



Optics
- Heads-up see-through distortion-free display
- Field of view: 30º each eye
- Fixed focus at 11' to minimize eye strain
- Requires no IPD adjustment
- 100% stereo overlap
- Can be worn with eyeglasses

Displays
- 2" full color 0.7" LCDs
- Resolution: 180,000 pixels per LCD panel
- Input: 1 NTSC channel, field sequential
- Video Mute™

Audio
- Stereo RCA connectors, 1 volt p-p
- Frequency response 20Hz-20kHz
- Excellent 3-D audio spatialization

Mechanical
- Ergonomically designed for comfort
- Weight: 8 ounces
- Clip-on immersion visor

Video Interface
- Video: single channel RCA input
- Audio: stereo RCA input

3-D Capable
- True stereoscopic imaging
- Field sequential-flicker free

Electrical
- Power supply: 110VAC in/6VDC out
- Power consumption 2.5 watts
- Easily accessed on/off switch

PC Head Tracker
- 3 degrees of freedom: pitch, roll and yaw
- 250 Hz sample rate

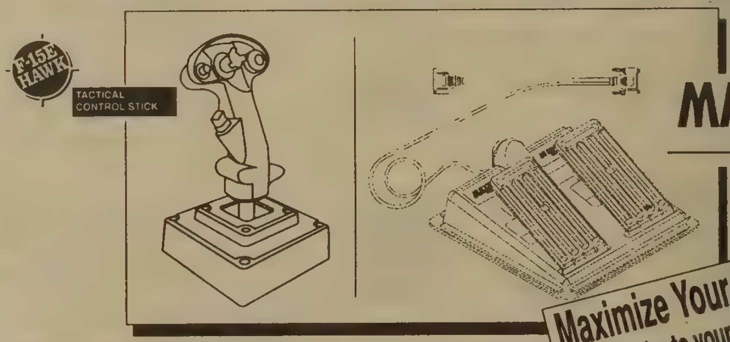
PC Interface Module
- Video: Single channel RCA input
- Audio: Stereo-input and pass-through output
- VGA interface-input and pass-through output
- No internal card or software drivers needed
- 60 or 70 Hz operations
- both field & line sequential 3-D formats

$749^{95}

Suncom
TECHNOLOGIES

STRIKE FIGHTER SERIES™

Joystick & Rudder Control



MAXX PEDAL

Maximize Your Control
Add rudder to your simulation!

- The authentic replica of the actual flight stick found on the F-15E Strike Eagle, the premier fighter jet for the USAF.
- Offers enhanced realism for PC flight simulation
- Compatible with any joystick or yoke
- Requires IBM PC or compatible with gameport
- Fully assembled, Ready to Plug & Play

Both only....... $74^{95}

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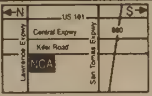

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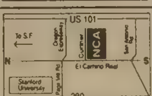

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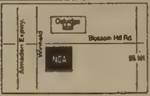

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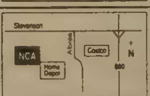

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HIGH QUALITY COMPUTER PRODUCTS

TAC SYSTEMS INCORPORATED

DOOM GUNN™

YOUR PRAYERS HAVE BEEN ANSWERED

I APPROACHED THE DOOR CAUTIOUSLY.
A NOISE FROM BEHIND WARNED ME OF THE APPROACHING ENEMY. I SPUN AROUND AND FIRED MY LAST TWO SHOTS. AMMO SPENT, I HAD NOWHERE ELSE TO TURN. THE DOOR OPENED AND UPON A PEDESTAL BEFORE ME LAY MY LAST HOPE OF SURVIVAL, THE M-308 DOOM GUNN™. LATE, BUT IT HAD FINALLY ARRIVED FROM EARTH. NOW THE ENEMY STOOD NO CHANCE FOR SURVIVAL. I SLAMMED IN THE CLIP AND WAS READY TO COMPLETE THE MISSION.

MORE INSTINCTIVE AND REALISTIC GAME PLAY!
WORKS WITH DOOM™ AND ALL 3-D ACTION GAMES!
SINGLE HANDED PLAYABILITY!
QUICK ACTION TRIGGER!
ERGONOMIC GRIP!
FREE BONUS SOFTWARE INCLUDED!
HINTS AND CHEAT CODES FOR POPULAR 3-D ACTION GAMES INCLUDED!

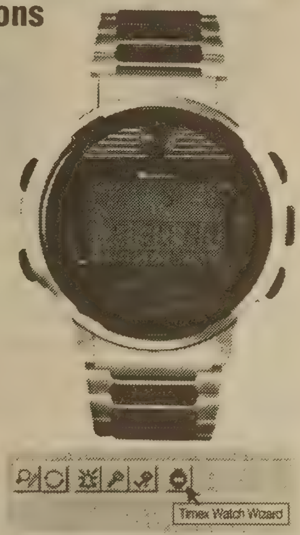
IBM PC & COMPATIBLES

$59.95

Join The Timex and Microsoft Revolution

Wireless PC to Watch Communications

TIMEX DATA•LINK WATCH



A personal information manager on your wrist.
Download information from your PC to the Timex Data Link watch. Select information from the Microsoft and Timex Data Link software, then simply point the watch at your PC monitor. The information, as flashing lines of light on your PC monitor, is read by the watch sensor. In seconds, up to 70 entries are loaded in the watch.

The Times Data Link watch features:
Appointments-Stores time, date, and message of appointments, and beeps to remind you before each one.
Phone Numbers-Shows name and phone numbers for quick and easy access.
Anniversaries-Reminds the watch owner of an event with a string tied-on-a-finger icon.
To-Do-Lists-Lists tasks in a memo log sorted by priority.
Time Settings-Sets watch time directly from a PC and allows users to keep track of a 2nd time zone.
Alarms-Presets up to five alarms a day, manually or by downloading from the PC.

TRADITIONAL WATCH FEATURES
•**INDIGLO** night-light with NIGHTMODE illuminates the entire watch display with a uniform bright light in low light conditions.
•Shows hours, minutes and seconds with 12/24 hour format option.
•Water resistant up to 100 meters.
•3 year battery life.

MICROSOFT WINDOWS COMPATIBLE

$99.95

Black leather or silver bands!

SYCOM TECHNOLOGIES

Total Recall™ - A Big-Memory Digital Recorder and Organizer That's Smaller Than Your Hand

Total Recall™ takes digital recording technology to new heights, overcoming the limitations of conventional tape recorders and surging past other digital recorders on the market today! Total recall not only enables you to easily capture your most important thoughts with a touch of a button, but also tag them for quick access wherever and whenever you wish. By conveniently tagging your VoiceNotes™ with an audible alarm, you can be sure that you remember those important ideas before it is too late.

In addition to serving as a quick message reminder device, Total Recall™ serves as a powerful dictation system. After completing a VoiceNote™ you can later edit it just as you would using a word processor. You can selectively erase portions and insert additional recordings at any location without recording over previous notes.

Total Recall™ not only takes dictation, but does filing as well. Total Recall™ is the only digital recorder that allows you to store each message in a specific "folder." By permitting you to categorize your VoiceNotes™, Total Recall™ makes it even easier to retrieve your personal VoiceNotes™.

- LCD display with memory status, alarm indicator, and battery level gauge
- 11 minutes of recording time for 100's of VoiceNotesTM
- Voice activated recording (VOX)
- Voice alarms for all notes
- Wake-up alarm
- Earphone jack for listening privacy
- AC adapter jack
- Ergonomic design: 4 3/8" x 2 1/8"x 1/2"
- Weighs only 3.5 oz.

$139.95

BrainWorks

STAR TREK THE NEXT GENERATION™

TRANSFORMS ANY PC INTO A STAR TREK COMPUTER!

Multimedia Disk Holder

Searching the galaxy for data has never been more exiting than with this shuttle craft disk holder that stores 35 3.5" disks or 10 CD-ROMS.

$9.95

Monitor Mask and Free Mouse Pad

With this sculpted, 3-D monitor mask, your boring beige PC will never be the same! It will make you feel as if you're on the bridge of The Enterprise™! Fits any 14" or 15" monitor and comes with free mouse pad.

$17.95

Mouse and Free Mouse Pad

This sophisticated phaser is actually a two button serial mouse. PC & Windows™ compatible. The mouse pad is the STAR TREK: THE NEXT GENERATION™ insignia and it's free with purchase.

$19.95

The 24th Century Keyboard

With it's space age design, it plugs into any PC. Comes with a built in wrist rest to relieve stress and fatigue when inputting critical Starship data. Includes the exclusive BrainWorks Flashers! 7 different keyboard lightshows.

$54.95

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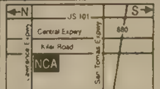

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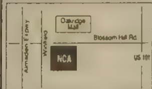

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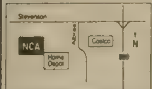

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HIGH QUALITY UPGRADES

ScreenToyz

Your Choice: $29⁹⁵*

•Price after $5 mail-in rebate. In-store price is $34.95

ScreenToyz from Contango, INC., gives you a choice of three wacky hardware devices that plug into the PC keyboard port and interact with cartoon-like software. ***TNT Tad*** and his ***Detonator*** allow you to, among other things, blow up that tedious spreadsheet. ***Latrina*** and her slime-filled toilet enable you to, for example, flush away your boss's e-mail. And ***Stitch*** with his high-voltage ***Knife Switch*** lets you stomp your database down to size ***Trashmaster style.***

TNT Pad

In each of his crazy capers, TNT Tad will suprise you with explosive action. Watch him tempt fate as he juggles sticks of dynamite. Watch in awe as he learns his lesson that grenades are not toys! You'll have a total blast!

Latrina

With slimy shticks like The Plunger Man, Scrubbing Bubbles, and Dog Abuse, Latrina will tickle your funny bone. Watch her bounce around your screen trying to catch flies with her tongue. Marvel at her dexterity as she plunders her way through the Dance of the Sugarslime Fairy. You'll get totally grossed out!

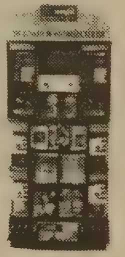
Stitch

Stitch comes to life in shocking adventures. Watch him run scared as he tries to evade the angry villages. Reel in horror as he digs for hidden body parts. Be touched by his gentle wooing of the beautiful Faye. You'll go to pieces!

SIGMA DESIGNS®

REALmagic

Any Title, Only.... $29⁹⁵



MPEG Software Titles

Interactive Games

Tsunami
Silent Steel
Flash Traffic
Man Enough
Virgin
Conspiracy
Crystal Dynamics
The Horde
Intellimedia
Cowboy Casino
Readysoft
Space Age
Fathom
Return to CyberCity

Reference/Personal

Creative Multimedia
Masters Golf
Life
Blockbuster Video
DataSet
Shape Up
Sumeria
Ocean Life

Music

Reed Agency
Dizzy Gillespie
Max Roche
Gerry Mulligan
Graphic One
Price
Time Warner
Black & Blue

Movies

Paramount
Top Gun
Hunt for Red October

Third Party Software

Apex
Master 3D Studio
Image Style
Image Art
Win. '95 Int. Training
InterNet & WWW
TriDigital
Cybervisions
Futurevisions

ReelMagic Hardware

REALmagic Lite

Graphics Accelerator Card With MPEG Playback.......$199⁹⁵

VLB Bus Get blazing fast graphics using the latest technology

YAMAHA WAVEFORCE™ DB50XG

WAVE TABLE SOUND DAUGHTER BOARD

WAVETABLE SYNTHESIS UPGRADE FOR THE WORLD'S MOST POPULAR SOUND CARDS

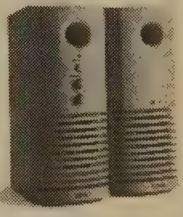
Maximum 32 notes, 16 parts (Dynamic Voice Allocation), 4 MB Voice ROM, Max. 676 voices, 21 drum kits, 11 types of reverb, 11 types of chorus, 42 types of variation

$179⁹⁵

YAMAHA POWERED MONITOR SPEAKERS

GET YOUR'S NOW BEFORE REBATE IS OVER! (rebate over Dec. 31, 95)

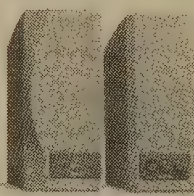
YST-M5 Active Servo Technology



- 3 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 90Hz-20KHz ± 3dB
- Includes AC Adapter

$28⁹⁵*

YST-M10



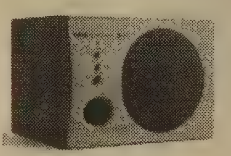
- 10 Watts per channel
- Video Shielded
- Active Servo Technology delivers Life-Like sound
- 80Hz-20KHz ± 3dB
- Includes AC Adapter
- 4 Star Rating "MACWorld April 1994"

$63⁰⁰*

*After Instant In-Store Rebate

YAMAHA POWERED SUBWOOFER

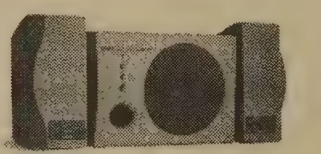
YST-MSW10



- 25 Watts
- Video shielded
- Auto On/Off Switching
- Active Servo Technology delivers Life-like sound
- 35Hz-250KHz ± 10db

$169⁹⁵

YST-SS1010



YST-MSW10 subwoofer
PLUS YST-M10 speakers
(see descriptions above)

$219⁹⁵*

*After Instant In-Store Rebate

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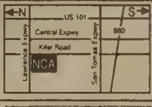

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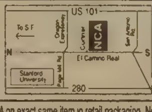

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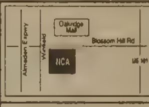

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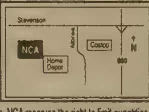

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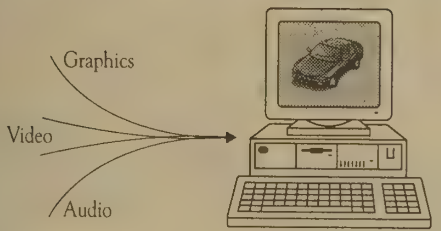
HIGH QUALITY UPGRADES

PACIFIC BELL FASTRAK℠ ISDN

Fast and Fun Access to the Internet



Pacific Bell *FasTrak ISDN* allows you to access the Internet ***faster than any modem.*** ISDN gives you graphics in an instant—you no longer have to wait for Web pages to download slowly over an analog modem. You are up to speed with ISDN. See NCA to order your Pacific Bell *ISDN*, or call **1-800-4PB-ISDN.**

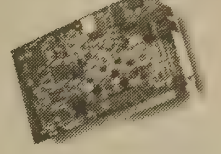
Technology ISDN BRI

Product	Monthly	Installation
ISDN Single line ISDN for business includes one metered business line	\$24.82 plus usage/ \$26.04 if multiple lines	\$70.75 for one metered business line[1]
Home ISDN Single line ISDN for home	\$24.50 plus usage[2]	\$34.75 for one metered residence line[1]

[1] \$125 ISDN installation fee waived for a two-year service period.
[2] Usage charged between 8 a.m. – 5 p.m., Monday through Friday.

PACIFIC BELL.

Cardinal.®



Cardinal's new voice modems are a powerful integrated messaging solution for your small or home office.

- Windows 95 ready
- Plug and Play compatible
- Sophisticated voicemail, fax and data features
- VoiceView-certified for simultaneous voice and data connections
- Includes FaxWorks and TalkShop software
- Call discrimination
- Made in USA
- Limited Lifetime warranty

NEW!

14.4 Fax-Modem With Voice Mail

- V.32bis 14.4Kbps data transmission
- Built-in digital line protection automatically prevents damage from digital PBX systems
- Supports Motorola MicroTac family of cellular phones for fax and data communications(requires compatibility kit, sold separately)
- Advanced MNP10-EC error correction for fast, reliable cellular transmissions
- Smart power management minimizes power drain and extends battery life
- Includes full-featured Windows 3.1 or Windows 95 compatible fax and data communications software
- Detects dial tone, busy, ring and modem carrier signals

$^{\$}82^{95}$	$^{\$}89^{95}$
Internal	**External**

28.8 Fax-Modem With Voice Mail

- Provides true V.34 28,800 bps data transmission with error-correction in hardware for error-free transmission
- Call discrimination to automatically detect whether an incoming call is from a fax, machine, modem or a person
- Cardinal-exclusive "Extension Detectin" means the modem is smart enough to stop taking a message when any other phone on the same line is picked up
- Attach an external speaker and you can screen calls
- Support for phone company services including distinctive ring and Caller ID
- Binary File Transfer
- Fax Error Correction Mode

V.34

$^{\$}165^{95}$	$^{\$}184^{95}$
Internal	**External**

14.4 Fax Modem for PC
Internal/External .... $^{\$}49^{95}/^{\$}64^{95}$
28.8 V.34 Fax Modem-Super fast, fully compatible modem
Internal/External .... $^{\$}140^{95}/^{\$}162^{95}$
14.4 Fax Modem PCMCIA PC card .... $^{\$}129^{95}$
28.8 V.34 Fax Modem PCMCIA PC card .... $^{\$}274^{95}$

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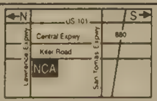

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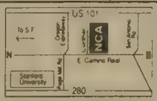

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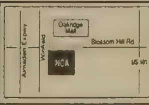

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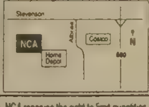

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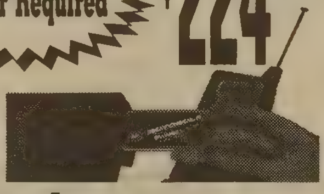

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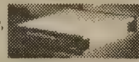
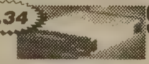
14.4 External Fax/Modem for Mac	Five Year Warranty, Cables and Manual, Top-Rated Data/Fax Software, Easy to Install and Easy to Use!		$99.95
28.8 External Fax/Modem for Mac	Software Included: *Microphone LT, FAXcilitate™, CompuServe Information Manager™, Cables and Manuals* V.34		$179.95
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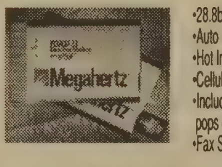

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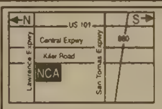

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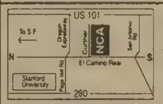

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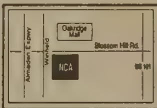

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1MBX9	60ns	9Chip	$Call
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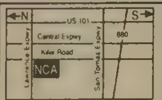

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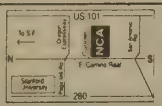

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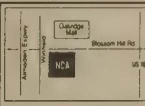

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  Effective "Edutainment" For Learning And Fun 258

MULTIMEDIA 101

Interactive Storytelling With John Sanborn

The Making Of Psychic Detective

Whether people want computers to tell them stories, and how to make those stories interactive, are questions that have sparked plenty of lively debate in the interactive multimedia world.

The reductionist camp maintains that storytelling has always been, or was at least originally, an interactive art, with listeners firing questions at the storyteller, who then weaves the listeners' curiosity into the fabric of his or her tale. Obviously, the parents of any five-year-old will recognize that this approach to storytelling is still alive and well.

The auteuristic camp takes the opposing position: that the storyteller descends from the heights of artistic inspiration with a cut-and-dried drama that would completely unravel should one thread be tugged at. This is close to the modern, mass-media type of top-down storytelling that we're almost continuously subjected to.

Of course, under either scenario, there is interaction between the story and the storyteller as he or she molds the story elements into a personally pleasing shape.

When computers enter the story with their abilities to store, edit, manipulate, and display dramatic events—and, more importantly, sequences of alternative events—the possibility arises that you, the listener, viewer, user, or player, can interact with a story in a more complete way than the auteuristic camp finds artistically feasible or comfortable. Cries about the lack of credible character development and coherent timelines, not to mention dramatic resolution, are quickly raised—cries which, until recently, appeared to carry some weight.

A prime reason these objections weighed much was because, as is so often the case in the multimedia world, the practice hadn't quite caught up with the progressive theories. In this case, the theories arguing against the possibilities were also too narrowly focused and were often based on the obvious failures of what limited practice there was.

John Sanborn, director of *Psychic Detective*, tackles the controversy head on: "The most important thing about anybody who sets out hard and fast paradigms about the interactive world is that it's bullshit. Today's paradigm is tomorrow's luncheon loaf. They don't last—that's what's so great about it. Whatever's been done before you can literally throw away. There's no history in multimedia, you can make it up, you really can make it up.

"I think you can take the best aspects of games, which are the world you can control—the set of rules, and your own playing ability

BY JONATHAN E.

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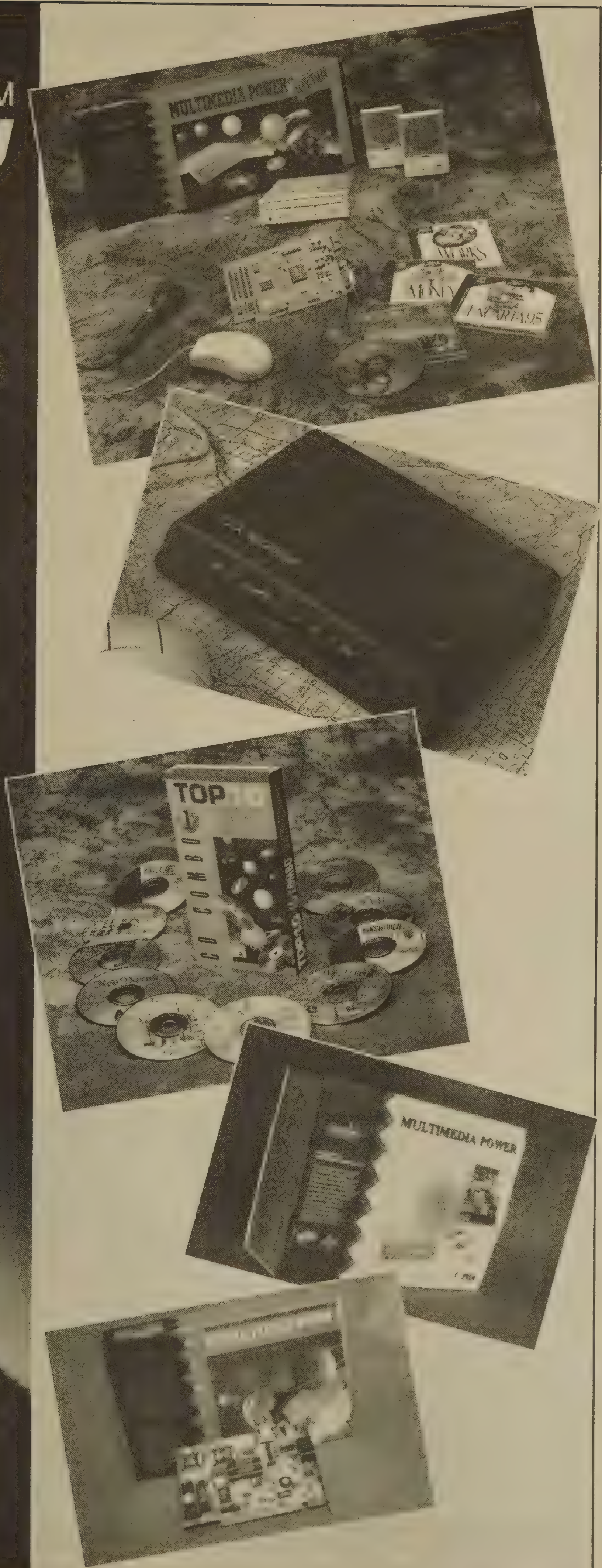
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with and against those rules—and you can take the best aspects of movies—characters you appreciate, characters you're emotionally invested in, changes that happen to those characters that you can control or that you are emotionally attached to, plot elements that are cleverly structured so that that character goes through emotional changes—and you, identifying with that character, go through the emotional changes, and there is some semblance of enlightenment. Put those two together and you've got an interactive movie or you've got a game movie or a movie you can play or whatever you want to call it."

You might consider this typical blowhard self-hype from another egotistical artist, but even a brief look at *Psychic Detective* and an hour's conversation with Sanborn indicate that he's made impressive progress in designing a story that allows for a fair degree of interactivity.

TELLING TALES WITH THE PSYCHIC DETECTIVE

Sanborn describes *Psychic Detective* as "a comedy mystery," a genre likely to work well with interactivity. It's not too serious, so there's a built-in playful aspect. You're likely to approach it with readily suspended disbelief. Mysteries invite interactivity through the audience's desire to figure out "whodunnit" or "whytheydunnit."

In the case of *Psychic Detective*, the excuse for computer-enabled interactivity is that the hero, Eric Fox, is, well, a psychic detective. Sanborn explains, "We have a host of different ways to interact. Basically, you're controlling Eric Fox, the PD. You can transmit into other peoples' heads, one of his psychic abilities—which means that you can jump out of your body psychically into somebody else's head, so you're seeing the world through their eyes and hearing it through their ears. Which obviously for a PD is really great, because your body can be over there and your brain can be over here. You can see and hear and know things that you couldn't from physical confrontation. Another thing you can do is that you can touch an object and get a retrocognitive flash from that object, so you get back story."

At the climax of the drama, you as Eric Fox are in a psychic showdown battle with the evil genius who has set the whole sequence of murderous events in motion. To win, you must know how to play the Black Diamond game, which you can learn from clues picked up from other characters as you progress through multiple versions and replays of events.

All told, *Psychic Detective* has 740 linked digital movies leading up to sixteen possible endings, depending on how well you've paid attention and learned various secrets as you've jumped from one character's head into another, followed them around, and selected which objects to pick up for your "retrocognitive flashes."

TELLING ALL THOSE STORIES

Sanborn got into interactive storytelling along with *PD's* screenwriter, Michael Kaplan, through working on Marc Canter's *Meet MediaBand*. The focus with that project was to first create the "Myth of the MediaBand," the back story, and then to develop the devices to tell a story or make a song work interactively.

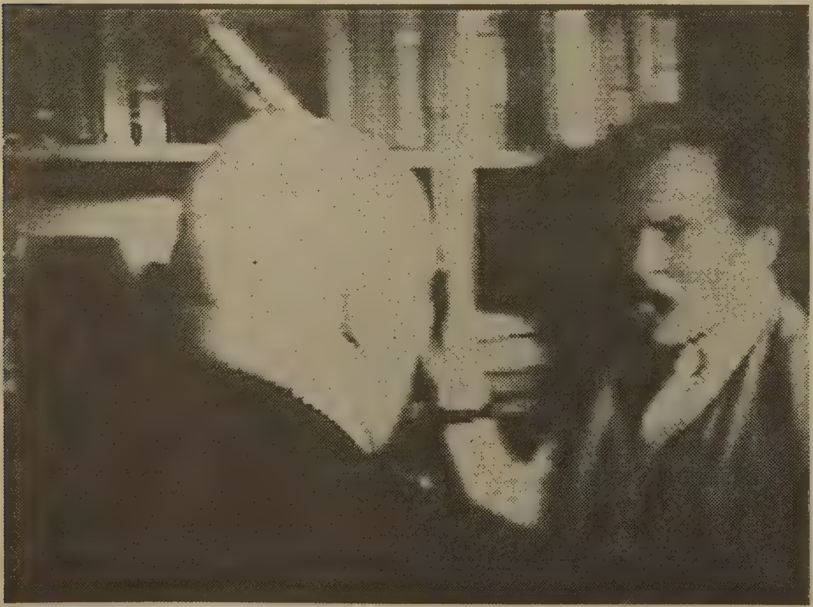
As Sanborn readily admits, "We really didn't know what we were doing. There was no one guiding us. We were looking at everything that was coming out and it was all environment-based searching, the *Myst* model. No one was really tackling the idea where the content was moving forward—where you must listen to and pay attention to what's going on, and then you must mold it at certain juncture points."

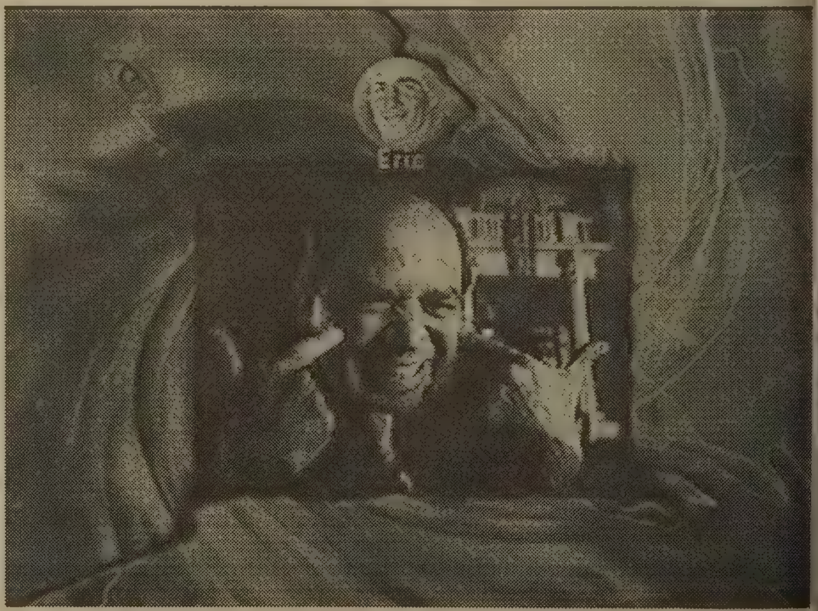
Eventually, through a process of trial and error and building on traditional storytelling techniques, they came up with some principles and techniques that made *Meet MediaBand* a significant step forward in interactive music video, and which they have expanded upon for *Psychic Detective.*

The very first lesson had nothing to do with technology. It came down to simple dramatic point of view. Sanborn explains, "There are some basic elements in dramas that are shared by pop music; then there are divergent elements which are interesting if you bring them into the pop music arena. The first thing that's most interesting, and is shared by different dramatic forms and by pop music, is point of view—who is talking in the song."

Once they understood that and had thought a bit about how the speaker spoke—"the nature of the poetic enunciation—do you say it plain, do you say it couched in metaphor?"—they moved on to dealing with the structure of the drama.

continued on page 318





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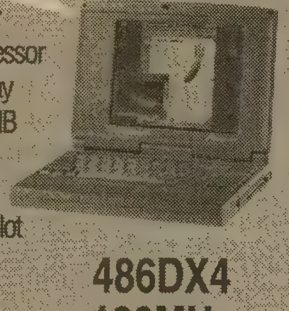

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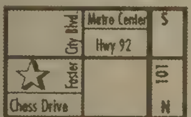


Draco

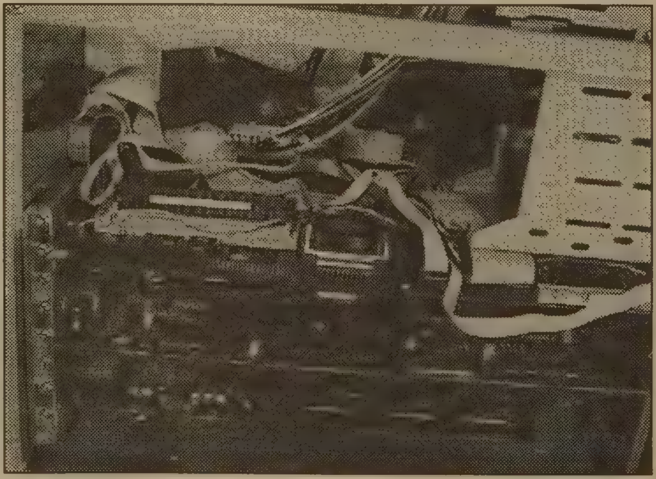
First Look At The High-Power "Amiga Compatible" Workstation

BY DOUGLAS J. NAKAKIHARA

Ever since MacroSystem announced Draco, an AmigaOS-running platform, there has been much speculation and some misinformation. At the time of the initial announcement, the Amiga had been out of production for about a year, and its future was up in the air.

Of course, we now know that Escom will continue Amiga development, but their initial offerings will be underpowered Amiga 4000Ts and 1200s. Draco's '060 CPU is at least competitive with a low-end Pentium, and it will ultimately offer power far beyond that.

This article is not a rigorous review of Draco, but rather a hands-on first look at the machine. Draco is still in the early stages of beta testing. MacroSystem's North American distributor, NoahJi's, was kind enough to provide me with one of only two in the continent.



WHAT IS DRACO?

MacroSystem created a machine that runs AmigaDOS, yet contains none of the Amiga's custom chips. Basically, this magic is accomplished by redirecting program calls to the Draco circuitry that would normally go to the Amiga chips. If an application is written with strict adherence to published Amiga programming guidelines, it should run without problem on a Draco. Unfortunately, it is not uncommon for programmers to resort to custom routines for faster execution speed—the most prevalent example being games. I should also note that Amiga audio is not supported at the OS level.

Draco owes most of its compatibility success to the Retina, MacroSystem's 24-bit Amiga graphics card, which has been on the market for a number of years. Essentially, the same "redirection" programming techniques are used in the Retina software. In fact, if a program works properly on an Amiga with a Retina, it will likely work on Draco.

FEATURES

Draco sports five Amiga Zorro II expansion slots and three proprietary 32-bit Draco slots. A special version of their Retina display card occupies one Draco slot. The second Draco slot is for an upcoming version of their video capture card, VLab Motion. Finally, the third slot is reserved for a DEC Alpha coprocessor card. This will allow near real-time rendering of special effects when editing digital video. Due to a limitation in the number of slots in standard PC cases, the third Draco slot is "in-line" with one of the Zorro II slots.

Practically all of the Draco circuitry is on one full-length daughtercard, which plugs into the CPU slot next to all of the expansion slots. All of the port cables (i.e., SCSI, serial, parallel, mouse, etc.) are connected to this board. The motherboard doesn't provide much more

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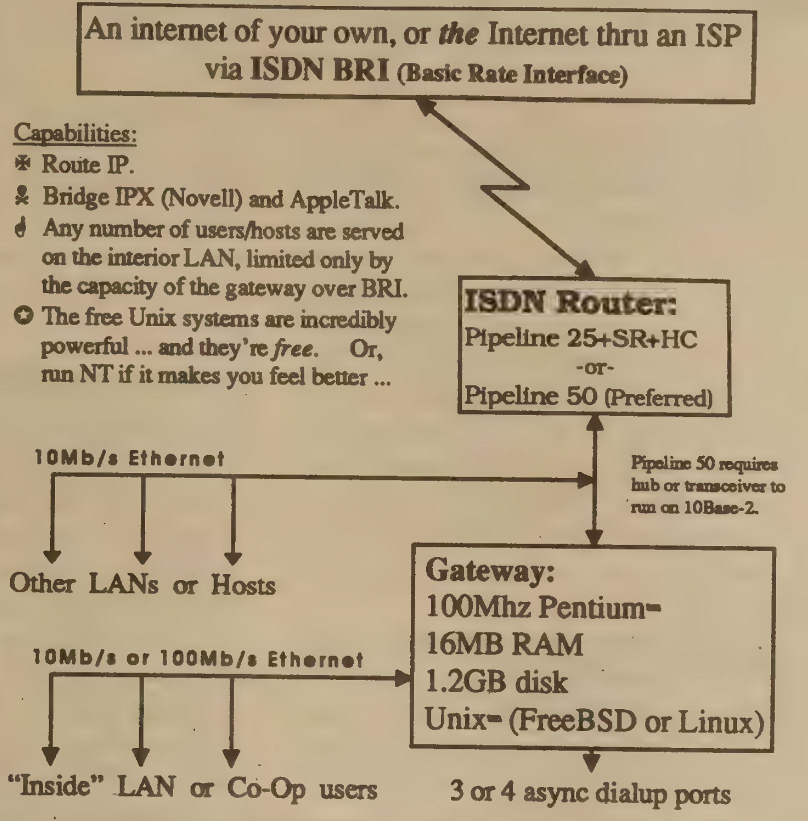

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than circuit connections and electrical power.

You're probably asking two questions right now: 1) Why Zorro II slots and not Zorro III? and 2) What about a video slot?

The answer to the first question is that they couldn't do Zorro III without the Amiga custom chips. The answer to the second question is a bit longer. Today, there is really only one real reason you would need an Amiga video slot—as a home for NewTek's Video Toaster. Getting a compatible video slot in Draco would have been no problem for MacroSystem. The problem was that the Toaster software would have to be totally rewritten, which NewTek was not inclined to do.

Although Draco is incompatible with current Video Toaster hardware, there is some room to be optimistic. The upcoming portable Toaster Flyer, which communicates via SCSI connection, should work with Draco (in theory).

VLAB MOTION

To tide users over while the Draco version of VLab Motion is being developed, MacroSystem has sprinkled a little more magic dust and upped Draco's Zorro II data transfer rate for the current VLab Motion board. Users should see about 2.8MB/sec. sustained and 3.2MB/sec. peak data throughput. The normal theoretical maximum for Zorro II is 2.5MB/sec.

Though the higher rates are significantly lower than earlier reports, MacroSystem indicates that they have only been able to get 1.8MB sustained and 2MB peak through the Zorro II bus on an Amiga with a WarpEngine. This means that sustained data throughput will be over 50% greater than previously possible using the existing VLab Motion card. Image quality should be dramatically improved.

50 FOR NOW

My prototype came with a 50MHz '060, but MacroSystem expects to ship the final product with a 66MHz version. As such, everything in the machine is reportedly timed for 66MHz and thus not optimized for the 50MHz clock rate. The final unit should see a 30% speed increase over the prototype system, whether or not the 66MHz version is available.

CASING, COMPONENTS, AND CONNECTIONS

The Draco prototype is housed in a large PC tower case; however, the shipping US model will likely use a different one. The Draco circuitry was designed to fit into any PC clone case. In fact, it is so modular, I installed everything, including the motherboard, and had the thing up and running in ten minutes! Maybe they should sell it as a kit where you supply your own case?

Though it's not in the prototype yet, Draco will ship with a quad-speed CD-ROM. All of the software will be included on a disc.

The external SCSI port is a 25-pin connector (*a la* Amiga and Mac) with support for Wide Fast SCSI being considered as an option. There is one parallel and one serial port. Eventually a second parallel port that emulates the Amiga's will be enabled, but this will be slower. Of course there is also a mouse and keyboard port, but no joystick ports. The video display port is the usual SVGA HD15 connector.

Draco uses a standard Microsoft serial mouse. The keyboard will be a PC keyboard with certain keys remapped to mimic the Amiga keyboard layout. For those who require the real thing, an Amiga 2000/3000 keyboard will work as well. The type of keyboard will be detected automatically.

You can mix and match any combination of up to four 60ns 72-pin 4, 8, 16, or 32MB SIMMs, parity or non-parity, making the maximum installed RAM 128MB. It uses the same type of SIMMs as the WarpEngine.

TRI-LINGUAL FLOPPY DRIVE

My unit did not come with a floppy drive, but MacroSystem is working on one that will handle three different formats! First, there will be a 720K/1.44MB super-fast Draco format. The file system can even be installed in an Amiga for the fastest possible information sharing capabilities using floppy disk media.

It will also support 720K/1.44MB MS-DOS formats via CrossDOS. The 1.44MB MS-DOS format will be twice as fast as it is on the Amiga.

Finally, Amiga 880K/1.76MB will be supported, although access will be much slower. Floppies will be bootable.

CYBERGRAPHICS

To further increase the likelihood of compatibility with existing Amiga software, the Cybergraphics display system is pre-installed in Draco. This makes the Retina display work more like part of the OS rather than as something "hacked" into it. With Cybergraphics, the various display modes come up in the regular Amiga screen mode requestors.

Retina-savvy users may not like, however, the performance hit for this compatibility. Most display refreshes are noticeably slower using Cybergraphics. Fortunately, it is a simple matter to disable Cybergraphics if you want.

SOFTWARE COMPATIBILITY

I haven't had time to do any type of thorough testing, but as a general rule, most program that run on the Amiga Workbench seem to ru fine. Programs that use overlapping screens wil most likely not run, or be too cumbersome t operate. Amiga graphics programs, particularl those that play animations, are notorious fo non-guideline compliant programming techniques, so a great many of these will most likel not work. This includes most games. Remembe Amiga audio is not supported either.

Fortunately, a number of Amiga programs d appear to be totally or partially compatibl These include LightWave 3D, ADPro, ImageF (in Workbench mode), DPaint 5, and AmiBac Tools. There may be some quirkiness with som functions, however.

If an application is written with strict adherence to published Amiga programming guidelines, it should run without problem on a Draco. Unfortunately, it is not uncommon for programmers to resort to custom routines for faster execution speed.

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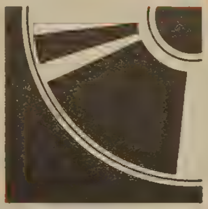

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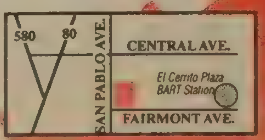

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SOFTWARE BONUSES

MacroSystem has licensed Elastic Reality's entire line of Amiga proc ucts. Every Draco will ship with ADPro, MorphPlus, the Profession Conversion Pack, all scanner drivers, and all of the extra savers an loaders like Abekas and Lasergraphics.

COST AND AVAILABILITY

NoahJi's will be offering a "pre-release" base Draco (4MB RAM and n hard drive) for $4200. This is designed for people who already own, are planning to buy, the current VLab Motion and want to play aroun with the upcoming technology. If this sounds steep, remember Drac has an '060 CPU, built-in SCSI controller, 4X CD-ROM, and a Retir graphics board. Add those features to the cost of an A4000 and you' probably over $4200. Call NoahJi's for availability.

One big thorn in MacroSystem's side is the lack of '060 chip MacroSystem has ordered thousands, but only received a handful far. Hopefully this will change soon. I don't buy the popular story th Motorola is holding things up in favor of their PowerPC line. They a sitting on a cash cow with the huge pent-up demand for the '060—n just for Amigas either. Remember most Macs could also take gre advantage of an '060 accelerator.

The third slot is reserved for a DEC Alpha coprocessor card. This will allow near real-time rendering of special effects when editing digital video.

The officially shipping Draco is expected to be ready in early 19 and carry a suggested retail price of under $10,000. This will inclu the new Draco VLab Motion with significantly superior capabilitie The best news is that the new version will allow bit-rate control. Th is, the software will dynamically vary the compression to allow t best picture quality while maintaining a user-specified data transf rate. An upgrade path for owners of the current VLab Motion will available for somewhere around $1000.

MacroSystem is also planning to offer...the option to run Macinto software! They have teamed up with the Shapeshifter (a popul shareware Mac emulator) programmer to bring a commercial versi for Draco to market.

IS DRACO THE AMIGA 5000?

To legitimately call Draco an "Amiga compatible," it would have run at least 90% of existing Amiga software and hardware. This ju isn't the case. The Video Toaster, most games, and Amiga audio pr grams are probably the most apparent examples of incompatib

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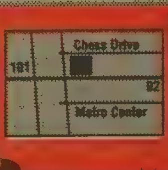

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AMIGA *continued...*

applications. However, it may, in fact, run 90% of the things you need to run. It depends on your needs.

Draco is primarily a turnkey system designed for uncompromised nonlinear digital video editing using VLab Motion. It just happens to run many Amiga applications. That is the mindset people should have when looking at this product. The bottom line is that, for compatibility's sake, I wouldn't recommend funding your Draco purchase by selling your Amiga.

However, perhaps Draco should be the next Amiga. MacroSystem's philosophy is very logical and clever: distance the Amiga from its aging custom chipset. Let the user interface run on a Motorola '060, but allow applications to take advantage of a fast coprocessor, like a 275MHz DEC Alpha. This provides a high degree of backwards compatibility while allowing third-party developers to tap into the most powerful CPU on the planet, if they need it. By comparison, Escom's apparent plan to move the AmigaOS to a RISC chip will require developers to rewrite and recompile their applications, not to mention buy new development tools.

OTHER NEW PRODUCTS

MacroSystem is getting ready to release a 40MHz '030 accelerator/SCSI II card for the A2000. Expect this to ship with a very attractive price tag. Later, there will also be an '060 version for all slot-equipped Amigas. But that isn't the good news. (Can it get any better?)

It will also ship a special VLab Motion which can connect directly to its accelerator. By bypassing the bus, picture quality will be limited only by your hard drive's capabilities!

Also expect to see sometime next year, a Zorro III version of VLab Motion for the Amiga 3000 and 4000. This will be a by-product of the technology used for the Draco VLab Motion.

MacroSystem is very committed to the Amiga market. It has demonstrated this wit actual product, not just verbal hype. With it existing Retina graphics boards, VLab digitize VLab Motion video capture board, and Toccat audio card, plus upcoming accelerators, Draco and a new VLab Motion, it will have a prett impressive product line. The Amiga communit is very lucky to have it as an active developer. ■

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RESOURCES:

Draco
$10,000 base system (estimate)
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Additional Media Coupler for Thin/10BT	79
MC ElitePort EtherNote Combo	235
IRCOM Pocket Adapter III 10BaseT	284
Pocket ENET III COMBO(BNC & 10BaseT)	325
Pocket PEM-10BT Fax/Modem 10BT/BNC	500
PCMCIA IIPS 10BaseT/Combo/TR	163/213/450
PCMCIA Enet 28.8 Modem & Fax 10BT/Combo	505/556

Concentrators & MAUs

COM Linkbuilder TP/12 NO AUI/BNC	350
SANTE 8-Port w/AUI&BNC/12-Ports	165/335
24-Port w/AUI	511
LLIED TELESYN 4/8/12 Port (AUI)	209/229/456
ICRODYNE 5318+ 16 ports w/BNC&AUI	547
AY NETWORKS 800 8-port w/AUI	294
2800A 16 ports w/AUI	572
P Advanced Stack 8-port	279
Advanced Stack 16-port	542
MC 3608TP 8-Port/3512TP 12-port	304/568
Elite 4000C TR Mau 8-port/16-port	722/1,106
COM Linkbuilder TR 3C510180	1,875

SNMP Manageable Concentrators

COM Linbuilder FMSII TP 12-port	576
Linkbuilder FMS II TP 24-port	1,014
Linkbuilder FMS II TP 48-port	2,200
Linkbuilder FMS II Management Module	480
HEWLETT PACKARD Advanced Stack 12-port	617
Advanced Stack 24-port/48-port	1,062/1,963
Advanced Stack SNMP module	462

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CB-2050D w/o NT1; Unl. Users	$1,164
CB-2060A w/ NT1; 4 Users	$931

Advanced Stack 12-port w/SNMP	960
Adv. Stack 24-pt w/SNMP/48-pt w/SNMP	1,440/2,261
NETWORTH 8-Port Snappable	650
16-Port Snappable Hub	930
16-Port SnapView Bundle (1 Hub/HubView Sw)	1,296
48-Port Snappable Bundle	2,603
24-Port TriSegment Stackable Hub	1,288
24-Port TriSegment Mgmt. Hub	2,041
PowerPipes Ethernet/FDDI Switching Hub	7,487
BAY NETWORKS 810M 8 ports w/ AUI managed	572
2800A 16-port w/AUI	598
2803 16-port w/AUI/2804 w/FIBER	649/875
2813-04/2813-05 16-port w/AUI	1,576/1,010
2814-04/2814-05 16-port w/FIBER	1,791/1,246

Network Management

3COM Transcend Workgroup Mg for Windows	496
Transcend Enterprise Mgr for Windows	2,181
FRYE NetWare Mgmt 1st/Add Svr	337/277
HEWLETT PACKARD Interconn. Mgr for Win	407
Interconnect for OpenView	2,010
INTEL LanDesk Manager	1,047
LanDesk Mgmt Suite 5users/10/100	438/584/3,469
LanDesk SNMP Gateway/Response	578/717
LanDesk Traffic Analyst	718
LanDesk OpenView for Windows	1,789
NOVELL Lanalyzer for Windows v2.1	1,100
NetWare Management System	1,692
NetWare Management Agent (Single)/20PK	338/5,382
NetWare LANalyzer Agent v1.0 (Single)	1,008
NetWare LANalyzer Agent (Multiple Segment)	1,692
NETWORTH HubView or HubView for NMS	733

Long Distance Repeaters

TUT Systems XL1501 (1BNC/1RJ11) 1500'	991
XL1502 (2BNC/2RJ11)	1,416
XL1503 (1BNC/1RJ11/1AUI)	1,057
XL1504 (4BNC/4RJ11/1AUI)	2,752
XL600+ 600' Repeater (1 Pair)	499
Dual Port Repeater BNC/BNC/Quad Port	199/249

Tape Backup Solutions

ARCADA Backup Exec Single Server 25 Users	334
Backup Exec Single Server Unlimited Users	474
Backup Exec NetWare Enterprise NLM	916
CHEYENNE ARCserve v5.01 NLM 5/10	261/511
ARCserve v5.01 25/50/100 users	882/1,082/1,219
ARCserve v5.01 250/500/1000	1,502/2,551/5,842
JETserve Backup	5,026
Changer Option for v5.0/Stacker Option	456/470
PALINDROME Backup Director NLM 1 SVR (25 Users)	256
Backup Director NLM 1 SVR/Multi-Server	585/1,011
Storage Manager Single Server/Multi-Server	1,435/2,522
COLORADO Power Tape 1.1GB w/o Ctrl	696
Power Tape Int. 2GB SCSI Tape Drive w/Ctrl	1,065
Power Tape 50-4 GB SCSI Tape Drive w/Ctrl	1,295
EXABYTE 8205XL 8mm 3.5-7GB Drive Int/Ext	1,419/1,692
EXB-8505XL 8mm 7-14GB Drive Int/Ext	2,214/2,410
EXB-8700 8mm 7-14GB w/Arcada Backup for DOS and choice of NLM or NT software	2,100
HP C1536 DDS 4mm 4-8GB DAT Int/Ext	840/990
C1533 DDS2 4mm 8-16GB DAT Int/Ext	1,117/1,267
ST. BERNARD Open File Manager	495

Bridges/Routers/CSU

Rockwell NetHopper NH-5 Remote Access Router	CALL
NetHopper NH-P NetWare Async Rtr w/v.34	1,542
NetHopper NH-SYNC+ Sync Router	CALL
MOTOROLA DDS/MR64 V.35 or RS232	463
FT100S V.35 or RS232	1,000
FT100 V.35 Frame Relay	2,000

Switching Hubs

3COM LinkSwitch 500 10RJ45	2,815
LinkSwitch 1000 24 RJ45, 1 Fast Ethernet	3,536
Kalpana EPS500 EtherSwitch 5-pt w/SNMP /Full Dplx	2,352
EPS2015-041 EtherSwitch 15-pt w/SNMP	6,271
NLM Load Balancing Software	441
SMC TigerSwitch XE 24-pt	6,926

Remote Access

CITRIX WinView Software 10-User	2,354
NOVELL NetWare Connect 2/8/32 pts	380/1,528/4,491
NetWare Connect 2-port w/Modem and Serial I/O	1,064
NetWare Connect 8-port w/Modem and Serial I/O	4,055
HEWLETT PACKARD AdvanceStack Dial-A-LAN Modules	
2A/Plus Module w/2 v.34 28.8 Modems J2623A	2,132
2A/Plus Module and SNMP Bundle J2633A	2,241
4A Module w/4-async ports J2624A	1,706
4A Module and SNMP Bundle J2634A	1,777
SHIVA Net Modem/E 28.8	1,332
Lanrover/2E Plus w/ 2 V34 modems	2,422
Lanrover/2E Plus w/ 1 V34 modem & 1 Async	CALL
Lanrover/2E Plus w/ 2 Asnyc	1,752
Lanrover/E 3.5 8prt	3,847
Lanrover/E Plus Async 8prt w/o modems	5,179
Lanrover/E Plus 8-port v.34	7,898
DIGI INTERNATIONAL Digi 2-Pt/4-Pt/8-Pt	200/455/588
U.S. ROBOTICS 2-port Lan Modem Enet/TR	1,590/1,986
XIRCOM NetAccess 4-pt/8-pt	2,609/4,563

ISDN Connectivity

3COM Impact ISDN 3C871 (MPPP)	488
Impact ISDN 3C872 (MPPP) w/ modem	562
ASCEND Pipeline 50 ISDN Single w/NT1	961
Pipeline 50 ISDN Multi w/NT1	1,342
Pipeline 400B/400T/400-4BRI	3,393/4,680/7,605
COMBINET 900 ISDN PRI Enterprise Access Server	3,539
CISCO Systems LAN2LAN Personal Office ISDN-BRI	506
LAN2LAN Remote Office ISDN-BRI	1,412
LAN2LAN Enterprise ISDN-BRI/4 BRI	1,925/3,995
DIGI Datafire 16 Bit ISDN (PPP)	409
PC-IMAC ISDN	533
PC-IMAC Multiport ISDN/4-1/4-2/4-4	672/1,064/2,092
IBM WaveRunner ISDN ISA/MCA	562/562
7845 Extended NT1 for voice/data w/ battery	357
HAYES ISDN Adapter	733
MOTOROLA UTA220 ISDN w/NT1	616
HMTA200 ISDN/v.32/Fax w/NT1	711
BitSurfr PRO ISDN Term Adapter w/NT1/2 ANALOG	399
BitSurfr PC ISDN Internal TA	368
NT1D Network Terminator	186
US ROBOTICS Courier-I Modem w/V.34 w/Analog Int	630
Courier I-Modem w/ISDN/v.34 w/Analog Port Ext	743
Courier-I Modem w/ISDN/V.34 w/o Analog Port Int	588
Courier-I Modem w/ISDN/v.34 w/o Analog Port Ext	702

Network Printing Solutions

CASTELLE Jetpress XIO BNC/10Base-T	381
Jetpress MIO for HP4/MIO PLUS	349/451
LANPress 10BT (1 PAR)	313
LANPress THIN/10BT (1PAR/1SER)	362
LANPress THICK/10BT (2 PAR/2SER)	512
HEWLETT PACKARD JetDirect 10BT MIO	330
JetDirect Combo MIO BNC/10BT	400
JetDirect Ethernet EX/EX Plus3	362/484
JetDirect Token Ring EX/EX Plus3	567/682
INTEL Netport EL Ethernet/Token Ring	422/588
NetportExpress XL for Ethernet/Token Ring	463/618
MILAN Fastport 3110CX 10BT, Multi-Protocol, 1P/2S	396
Fastport 3210X 10BTMulti-Protocol, 2P/2S	485
Fastport 3500X TR Multi-Protocol	521

Network Fax Solutions

CASTELLE FaxPress 1000, 10BT/BNC	1,576
CHEYENNE FaxServe 3 NLM 5/10/25	393/717/1,177
FaxServe 3 NLM 50/100 (*New Version*)	1,816/2,533
FaxServe 3 NLM 250/500	3,801/4,982
FaxServe 3 NLM 1000	6,229
DELRINA Net Satisfaxtion for 8 fax boards (25 users)	786
Net Satisfaxtion (1000 users)	1,040
Winfax Pro for Networks 10/25/50	626/1,489/2,774
Starter Kit (1 Server, 2 nodes)	284
GLOBAL VILLAGE FaxWorks Pro LAN 2/10/30.	145/494/571
PURE DATA Satisfaxtion Modem 200/400	244/315
Satisfaxtion Modem 2000/4000 2port/4port	1,157/1,822
U.S. ROBOTICS Ethernet Fax Server	1,970
Token Ring Fax Server	2,227

Network CD-ROM

MERIDIAN CDNET PLUS DOS/NLM (10 Users Start)	677
CDNET PLUS DOS/NLM (100 Starter Kit)	1,482
CDNET PLUS EXPAND (50/100)	525/896
MICRO DESIGN SCSI Express for NetWare, MDI	599
SCSI Express CDROM, Non-MDI	808
CD-Rom LaserBank 600CD Ext. Single/Dual	599/1,117
MICROTEST Discport Ethernet/Token Ring	488/818
Discport w/ Discview Pro ENET/TR	734/1,062
Discport w/NEC Ext. 6X Speed CD-Rom	1,140
Discport w/NEC 6X 4CDROM in 7-Unit Tower	3,173
Discport w/NEC 6X 7CDROM in 7-Unit Tower	4,838
Discport Pro	1,307
DiscServ NLM	558

Uninterruptible Power Supplies

APC Back-UPS 400/450	163/200
Back-UPS 600/900/1250	273/392/512
Powerchute Plus for Novell/Unix	99/149
Smart-UPS 450/700/700RM/1000	330/398/499/548
Smart-UPS 1000RM/1400/1400RM	646/675/805
Smart-UPS 2200/3000	1,183/1,901
Matrix 3000/5000/Smartcell	3,720/4,616/537
SNMP Agent for Novell/SNMP Mgr for Netware	125/145

Cable Testers & Supplies

RG58 & RG62 Rachet BNC Crimper/RJ45	45
RG58 Ethernet BNC-Crimp (100 pak)	125
RJ45 10 BaseT Connectors (100 pak)	40
10Base-T Cable (1000' min) LV3/LV 5	100/200
BELDEN PVC RG58 or RG62 Cable (1000' min)	175
PLENUM RG58 or RG62 Cable (1000' min)	350
MICROTEST MT310 Kit	739
MT350 Value Kit/Fiber Solution Kit	1,837/1,482
Penta Scanner/Compas Kit	2,706/3,967

Novell Software

Lan WorkPlace for DOS Single/10 Users	309/1,508
Lan Workplace for Mac Single/10 Users	289/1,437
Lan WorkGroup-5/10/20 Users	1,125/1,866/2,613
NetWare for Mac v3.12 200 Users/4.01	685/851
Branch Link Router/Enterprise Router	765/1,902
NetWare NFS/Gateway Bundle	2,861
NetWare NFS Service for NW4.1	2,239
Global MHS v2.0 20/50/100 Users	358/648/1,064
MHS v1.5 Network Edition 10/50/100 Users	140/504/733
MHS Multi-Network Edition 10 Users	140

E-Mail

cc:MAIL Desktop-Any Platform	72
Lan Systems License 10 users/50 Users	632/2,883
Group Pack 10-pack DOS/WIN	638
Mobile for DOS or MAC	150
Router/Fax	95/1,459
Link to SMTP v2.0/Link to UUCP	2,473/370
MICROSOFT PC Mail Server + 10 Users	485
PC Mail 5/20/100 Users	273/930/3,633
MHS Gateway/PROFS	708/3,405
SMTP/X400/Fax Gateway	3,173/3,194/1,419

Network Utilities

SYMANTEC Anti-Virus for NetWare 10/25	605/1,378
CHEYENNE InocuLAN 20/250 workstations	326/655
InocuLAN Option 25/100/250/1000	133/190/260/325
Utils for NetWare	257
COREL Network (RAID/CDROM/OPTICAL sw)	420
DIRECT ACCESS Network Menu	425
FUNK App Meter	464
FRYE Early Warning System or Lan Directory	350
INTEL LanDesk Virus Protect (Single)	696
LanDesk Virus Protect 4-pk/20-pk	2,070/6,757
MICROTEST Lan Assist or Map Assist	211
PALINDROME Prepare! Disaster Recovery SW	727
SYMANTEC Norton Admin. 5/10 Users	247/438
Norton Admin. 25/50/100 Users	1,068/2,028/3,680

ARTISOFT Peer-to-Peer Networking

ARTISOFT LANtastic 6.0 Network Starter Kit	244
LANtastic 6.0 Add-On Kit Coax/10BT	135
LANtastic 6.0 Software Single/5/10 User	99/354/637
LANtastic Management Serv./Advan	144/578
LANtastic for OS/2 Single/5/10/25/50	139/476/838/1,425
LANtastic Dedicated Server 2-10	535
Central Station NetWare	447
Noderunner/SI Coax or TP/Combo	109/129
Lantastic for MAC	433
Lantastic for TCP/IP Single/5 Pk	220/883
Power Suite Single/5/10/25/50	168/694/1,225/2,429/3,883
Power Suite Starter Kit 2 Users	412
Power Suite 1 User Add-On Coax or TP	216

Server Mirroring

VINCA Standby Server ISA/EISA	1,448/1,704
Standby Server 32 w/ Autoswitch ISA/EISA	2,220/2,561

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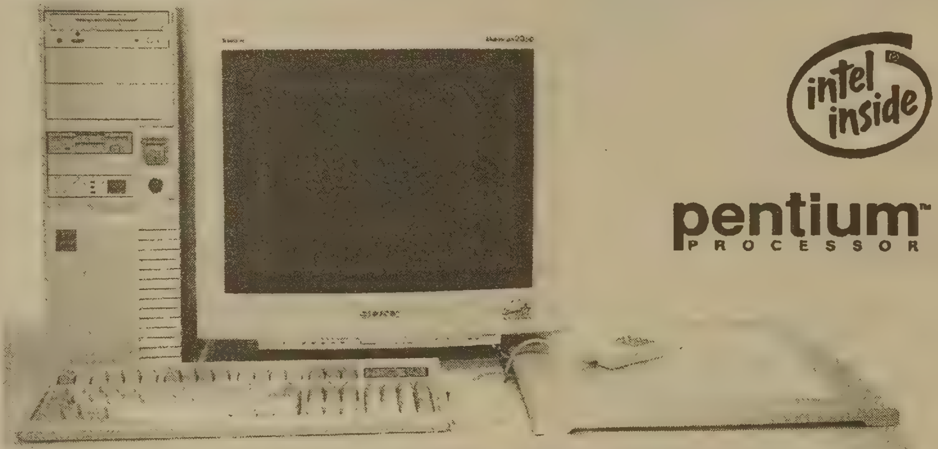

intel inside

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*Large size monitor(17" to 37")
*Plotter
 -Pen Plotter(A to E size)
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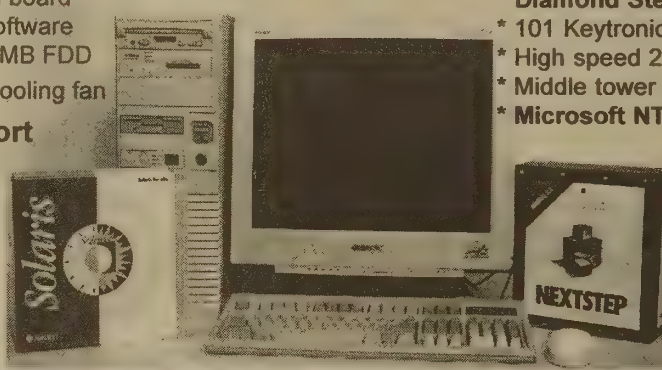

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* 33" Mitsubishi Scan 37	$ Call
* 29" Mitsubishi AM2752A	$ Call
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* 21" Nokia 445X	$2,595
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* 21" Nanao 780IW	$3,259
* 21" MAG MX21F	$1,895
* 20" Nanao T2-20	$2,163
* 20" SONY GDM20SE	$1,890
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* Calcomp Designmate D/E	$1,495/1,995
* Calcomp Techjet Color	$4,395/4,995
* Calcomp Techjet D/E	$2,395/2,995
* Calcomp Techjet personal (B)	$ 645
* Calcomp CCL600 Laser prt.	$3,295
* HP 355 Electrostatic color	$29,995
* HP Designjet 650C/PS E	$8,495
* HP DesignJet 650C D/E	$6,195/7,195
* HP DesignJet 600 D/E	$4,995/5,995
* HP DesignJet 220 D/E	$2,395/3,295
* HP memory 2M/4M/8M	$205/335/625
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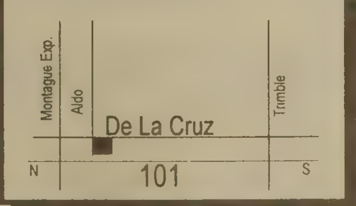

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Multimedia WorkPlay

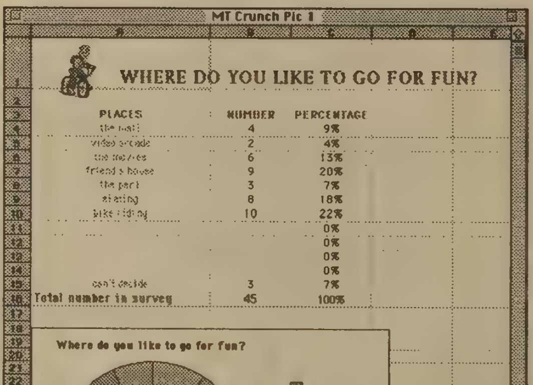
Effective "Edutainment" For Learning And Fun

BY TONY REVEAUX

Among the results of computer-aided multimedia development are the blurring of users' age levels and a fusion and synthesis of work and play. A long-building trend of using play and entertainment as accelerators for education and training has found its fulfillment in "Edutainment" CD-ROMs.

More and more of these media-rich CDs can be enjoyed as much by adults as by children and teens. If you want to share one with a young person, as you might do with a book, game, or video, chances are ever higher that you will have as much fun—and learn as much—as they will.

Two titles that use advanced multimedia to make complex activities accessible are Davidson's "Cruncher," a spreadsheet tutorial and application, and Big Top Productions' "Felix the Cat's Cartoon Toolbox." Anything to do with spreadsheets is, of course, a learning curve waiting to happen; "Felix" may not seem to be an edutainment title, nor does it claim to be, but it could possibly help you develop your intuition for audiovisual planning, design automation, and object-oriented programming.



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can't decide	3	7%
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THE CRUNCHER

The Cruncher was developed for Davidson by Joyce Hakansson's Berkeley Learning Technologies, Inc.; it has Mac and Windows versions ($40), aimed at ages ten to adult. What we have here, under the (literally) bells and (literally) whistles, is a real, grown-up spreadsheet and graphing application. There's nothing lacking for the most extensive recording, calculating, and what-ifs that you woul want to do for home, school, or many smal businesses. It has a couple of things tha Microsoft Excel doesn't have—clarity and sim plicity—as well as graphics, animation, soun effects, and funny animals.

If you've used Excel and watched it get out o control with your data, to the point where yo felt like you were trapped in a blind date wit the IRS, The Cruncher might be a more helpfu and benign alternative. The Cruncher spread sheet—grandson of VisiCalc—has the formul bar and all the rows and columns that yo would expect, and can support advanced func tions such as ABS, CEILING, LOG 10, SQR, an TRUNC, as well as trigonometrics. The note book is a miniature word processor attached t each spreadsheet, providing a place for notes lists, comments, and graphics.

But to jazz up all your functions, you can ca on the Stickers palette for dozens of clip a items and a peppy sound effects menu. You ca assign any sound to any clip. You can als import art and sound files and record directl into the application for voice notation—an input personalized groans and screams.

It is in the tutorials and projects—strong

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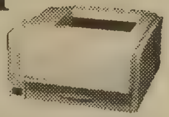

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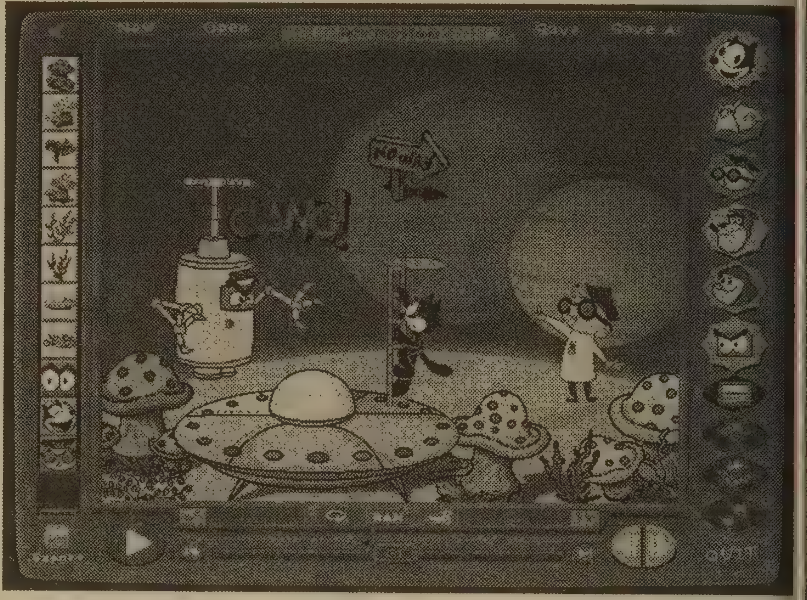
MULTIMEDIA WORKPLAY *continued...*

For an adult, Felix is a surprisingly sophisticated modular movement construction system that mirrors some patterns of object-oriented programming.



clear, and to the point—that The Cruncher excels. Your hosts and guides are two animated hipster animals with bongo and sax who will warm the hearts of old beatniks and something-somethings alike. They guide in voice and reinforce with dialog balloons. A snappy green hand points the way from entry to entry, and if you make a wide error, an animated surfer dude in a convertible screeches into the window to let you know.

The Fish Out of Water exercise uses animated elements to demonstrate cumulative functionality in the roles of cells. Others, like Making Cookies and Racing Slugs, demonstrate many more functions. All of this is learning by doing in sample spreadsheets. You learn operations like math, adding contents of cells, formulas, changing cell width and formatting cells, creating cells, filling down, pasting functions, and inserting and deleting rows and columns.

There are ten projects such as Magic Squares, Can We Get a Pet?, Party Planner, Plan a Trip, and Put Your Money to Work. Even with all the animation, nothing is really frivolous. There is no time limit; you just continue step-by-step at your own rhythm. The documentation is just as clear and has all the references for working in 'sheets.

The point is that an adult is just as apt to learn to use a spreadsheet faster with this format as a ten-year-old. The entertainment elements only rarely get in the way. Mostly they emphasize points better and move them along apace. I would certainly prefer to see a Form 1040 or a mortgage revealed in this way.

FELIX THE CAT

Felix is a world-famous cartoon character who was born in the black-and-white silent film era of the 1920s. Animator Otto Messmer modeled him on the inspiration of Charlie Chaplin's Little Tramp. Felix's spunky, springy cheer is expressed with a rubbery, inky body that can become a graphic tool—when his tail forms a question mark or an exclamation, for example.

Big Top has brought The Cat from the silver screen to a new digital arena in Macintosh and Windows. This exciting package can allow children from five to nine (and beyond) to produce professional-looking little cartoons with all the punch and flash of the Saturday morning TV series—but with more creativity. For an adult, it is a surprisingly sophisticated modular movement construction system that mirrors some patterns of object-oriented programming.

Each character is available in several pre-animated actions, seen in menu strips where each is running in a loop for your preview. Our star has, of course, many more than the other five characters—none of which are female. Most of the Felix cycles are available in both going-left and going-right versions.

All you do is select the action you want and drag it into the stage. If you place it in a stationary position, the movie automatically advances for the number of frames in the cycle, and when you rewind and play, the character will walk, jump, or shout in that spot. But you can just as easily click and drag it along a path on the stage, and Felix will walk or run or swim in that direction for the same length of time. You can always go back and move the character action to another location or delete it.

Click on the character and the VCR-like editing bars will pop up at the top of the stage. The green strips add or hold a selection, and the red strips cut selections from the cartoon. It doesn't take long to be able to modify, extend, and combine actions. The frame of the stage window supports the controls for playing and manipulating the rate and direction of the cartoon as you work on it. A layer manager lets you put characters and objects in front and in back of each other.

The rich variety of backgrounds, props, and special effects will provide an almost endless number of possible scenarios for the aspiring animator. The CD-quality sound deserves special mention. Not only is there music—it's good music. And the sound effects are so profuse and professional, I thought for a moment I had stumbled into the Warner Brothers' archive.

Each cartoon can live on your hard disk, a floppy, or in another computer by saving it as an exported file. That saved file becomes a Cartoon Toolbox Player, and does not need the application to run. The major downside to the Toolbox is that all that blazing action will quickly tax your machine. A RAM availability indicator is thoughtfully provided in the frame, and you will find the numbers dropping fast as you add frames.

And no, this program can't let you use RAMDoubler to enhance your computer's available memory.

RESOURCES:

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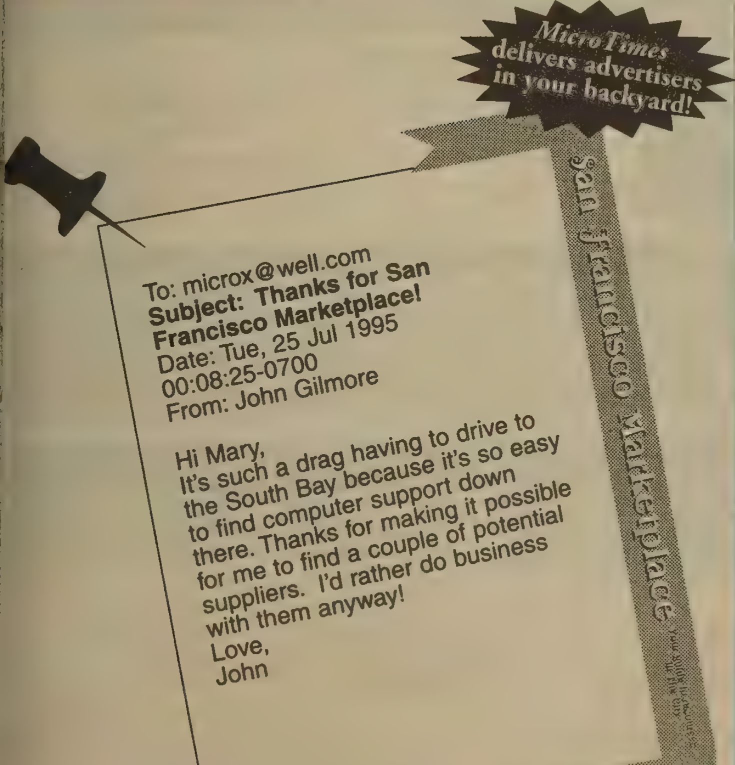
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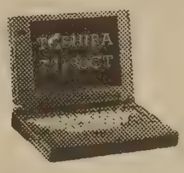

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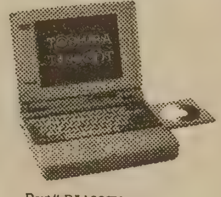

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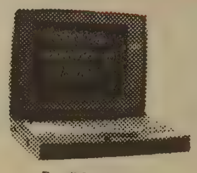

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F1066A	75MHz IntelDX4™	8MB/170HD	8.5"Dual Scan	[illegible]
F1114A	75MHz IntelDX4™	8MB/260HD	9.5"Active Color	[illegible]

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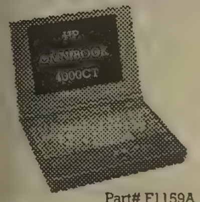
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4000CT				
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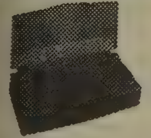
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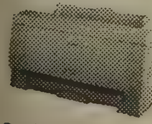
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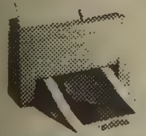
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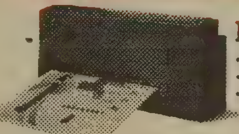
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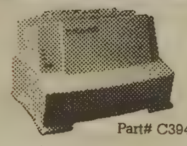
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Maxtor 850MB/1.2GB	$189/259
Western Digital 635MB 10ms	$175
Western Digital 1.2GB 10ms	$269
Conner/Quantum SCSI 1.08GB	$289
Conner/Quantum SCSI 2.1GB	$659

Controllers

ISA 16bit IDE with I/O	$15
DTC 16bit ISA IDE W/High Speed I/O	$18
VLB 32bit IDE with I/O	$19
EIDE VLB IDE w/16550 Chip	$25
Adaptec 1542CT SCSI VLB	$189
Adaptec 2842 SCSI VLB	$195
Adaptec 2940 SCSI PCI	$199

Tape Backups

Conner 420MB w/Tape	$129
Conner 850MB w/Tape	$189
Colorado 350MB Ext	$239
Colorado 1.3GB Tape Backup	$279
420MB/850MB Tape	$22/27

Network Parts

16 Bit Ethernet Card W/RJ45 & BNC Combo	$39
Intel Etherexpress Pro 10Base T	$89
3COM 509 RJ45	$89
10 Base-T Mini Hub 8-Port & 1-BNC	$118
Coax & RJ45 & Connector	$Call

Video Cards

S3 Accelerator VLB with 1MB	$75
Cirrus Logic VLB with 1MB	$75
Trident PCI with 1MB	$69
Diamond SpeedStar VLB w/1M	$109
Diamond Stealth 64 PCI 1MB DRAM	$115
Diamond Stealth 64 PCI 2MB DRAM	$158
Diamond PCI 2MB VRAM	$268
ATi Winboost PCI 1M/2M DRAM	$125/168
ATi Winboost PCI 2M VRAM	$265

Monitors

Socos 14" NI 1024x768 .28 Green	$218
GVC 15" NI 1280x1024, .28 Digital, Green, Flat Screen	$329
MAG 15" 1280x1024, .25, Digital, Green, Flat Screen	$365
Acer 17" Monitor, 1280X1024, 0.27dpi NI, On Screen Control	$619
Mag 17F Monitor, 1280X1024, 0.26dpi NI, Low Radiation, Digital	$639.99

Fax/Modems

Zoltrix 14.4 Internal	$45
28.8 Int/Ext V.34	$109/149
US Robotics Internal 14.4	$49
US Robotics Internal 28.8 w/V.34	$189
US Robotics External 28.8 w/V.34	$215

Keyboards

Focus Click Key w/Calculator	$49
Keytronic 101 Key	$35
Enhanced Keytronic KB for WIN95	$45
Microsoft Natural KB	$79
Maxstwich 101 KB	$35
101 Enhanced KB	$19

Mice & Cases

3 Button MS Compatible	$12
2 Button MS Compatible	$15
Logitech First 3 Button	$22
Logitech Trackball	$59
Mini/Med. Tower Case w/230W PS & Display	$39/59
Full Tower w/250W PS & Display	$89
Desktop Case w/230W & Display	$47

CD Titles

CD-Pak Win-Win II (14 titles On 3 CD's)	$29.99
Best 10 CD (10 CD Pack)	29.99
101 Only For Best Games#	39.99
11 Million business Phone	16.99
7th Guest	16.99
350+ Games Blaster!	9.99
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Aces Over Europe	18.90
Arthuris Teacher Trouble	14.50
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Battle Chess (PC/Macintosh)	15.99
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The 1995 Grolier	13.50
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World Atlas (Ver.5.01)	11.50
World Wide Web Resource Kit	9.99

Adult CD Titles

3-D Darlings	$12.90
3-D Dream Girls	12.90
All Night Long	12.90
Asia Girls	12.90
American Girls	24.50
Beach Girls	9.99
Biker Babes	18.90
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California Beauties	24.50
Collage Girls #1/#2	12.90/12.90
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Cyber Wheres	9.99
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Deep Inside	9.99
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Erotic Dreams 2	21.90
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BUILT-IN AUDIO

Specifications:
- Genuine Intel CPU Processor
- 128K Cache on 9400; 256K Cache on 9800
- 32 Bit VESA Local Bus Video with 10/3" Display
- 1MB Video RAM with 640x480 on Panal, 1024x768 on CRT
- 16 Bit Sound Blaster Compatible Audio System
- **Built-In 4MB RAM on 9400; 8MB Ram on 9800**
- 1.44MB High Density Floppy Drive
- **Removable 540MB Hard Disk Drive (810MB, 1.3GB Optional)**
- PCMCIA Slots (2 Type II or 1 Type III)
- Built-in 25mm Front-Centered Trackball
- Dual NiMH Battery with Hot Swap & 2 Hr Quick Charge
- Ports for Hi-Speed Ser, EPP, Ext CRT, Keyboard/Mouse & VLB Docking Station
- AC/DC Adapter, Carrying Case
- Weight: 6.6lbs; 11.4x8.6"x1.9"

NEW LOW PRICES	DUAL SCAN	ACTIVE MATRIX
9400 - 486DX2-66	$1795	$2225
9400 - 486DX4-100	$1815	$2261
9800 - Pentium 75MHz	$2175	$2656
9800 - Pentium 90MHz	$2265	$2745
9800 - Pentium 100MHz	$2330	$2810

Chembook 5400

- Genuine Intel Pentium CPU Processor (all models)
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- **32-Bit PCI Local Bus Controller with 2MB VRAM Video**
- 11.3" Dual Scan or 10.3" Active Color with 800x600 on Panel, 1280x1024 on CRT
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- PCMCIA Slots (2 Type II or 1 Type III)
- **Built-In Glide Point (PS/2); Bulit-In Joystick**
- 16-Bit Sound Blaster Compatible Sound System, with Built-In Speaker, Mic, Line-In/Out
- **Internal 2X CD-ROM Drive**
- **Infrared File Transfer Capability**
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Pentium-90MHz	$2765	$3105
Pentium-100MHz	$2830	$3170
Pentium-120MHz	$2930	$3270
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Chembook 5500 & 5550

11.3" SVGA DUAL SCAN

Specifications:
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- **8MB RAM, Expandable to 8/16/32MB**
- **Removable 540MB Hard Disk Drive (810MB, 1.3GB Optional)**
- **Internal 2X CD ROM Drive (Removable)**
- 32 Bit VESA Local Bus
- 1.44MB Floppy Drive (Removable)
- PCMCIA Slots (1 Type II or 1 Type III)
- Complete16 Bit Audio System, with Built-in Speaker & Microphone
- 16C550 Hi-Speed Serial Port, MIDI/Game Ports, EDP Port
- 11.3" 800x600 Dual Scan SVGA Panel Display
- 10.2" 640x480 Active Color SVGA Panel Display
- Supports 1024x768 on Ext Monitor
- Built-In Trackpoint •NiMH Battery
- Optional PCV Video w/MPEG Standard
- 11.7"x9.9"x2.2" •Weight: 6.7lbs

SPECIAL PRICES	DUAL SCAN	ACTIVE MATRIX
5500 - 486DX4-100	$2485	$2965
5550 - Pentium 90MHz	$2865	$3095
5550 - Pentium 100MHz	$2930	$3160
5550 - Pentium 120MHz	**$3030**	**$3260**
5550 - Pentium 133MHz	**$3230**	**$3460**

Patriot 6000

Pentium-Powered, Huge 11.3" Dual SCAN & CD-READY, MULTIMEDIA FREEDOM!

Specifications:
- Genuine Intel 486 or Cyrix Pentium CPU Processor
- 256KB Cache Memory on Board
- **8MB RAM (16MB, 24MB, 32MB Optional)**
- 32 Bit Local Bus with 1MB Video RAM
- Dual Scan 10.4" (11.3" Option), Active 10.4 TFT
- **Removable 540MB IDE HDD (810MB, 1.3GB Optional)**
- 3.5" 1.44MB Removable Floppy Drive
- 2 Type II Slots or 1 Type III PCMCIA Slots
- 86-Key Keyboard, Inverted "T" Curser
- Built-in Touch-Sensitive Trackpad
- Built-in Speakers and Microphone
- Built-in 16-Bit Audio Compatible SB 16 & Win Sound System
- 2 Serial Ports (16550 UART), Parallel Port (EPP/ECP)
- MIDI/Joystick Port (RCA Composite Video Port
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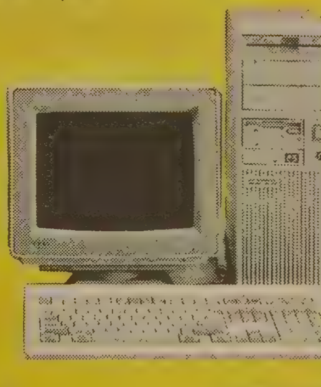
- 110V-240V AC Adapter
- Removable Ni-Battery
- DOS 6.22
  Durable Carrying Case
- **CD ROM Drive 5.25" 2X Enhanced IDE Interface**

	10.4" Dual	10.4" Active
486DX4-100	$2055	$2550
Cyrix Pentium 100MHz	$2125	$2620

Ultimate Pentium SCSI LAN Server



- Intel Endeavor Triton Chipset w/256K Pipeline Burst Cache
- Intel Pentium ™ Processor
- 16MB 72-pin RAM up to 128MB Simm
- Quantum FB108oS Fireball 1.08 Fast SCSI Hard Drive
- Adaptec 2940W Fast & Wide SCSI Controller w/Kit
- Teac 1.44MB Floppy Drive
- 2 Hi-Speed Serial Ports, 1 Enhanced Parallel Port
- Diamond Stealth 64 PCI 1MB DRAM Display
- GVC 1448B 14" NI .28dp Green Monitor
- Acer AV52T 101 Enhanced Keyboard
- Microsoft V2.0 Serial Mouse w/Pad
- Deluxe 6-Bay Full Tower w/300W Power Supply
- **Toshiba 3601B 4X SCSI Internal CD-ROM**
- **Creative Labs Sound Blaster 16 Vibra Sound Card**
- **3Com 3C590 PCI Combo Network Card**
- Smartlink 28.8 Internal V.34 AT&T Chipset

Pentium
75/90/100/120/133 . .$2655/2735/2810/2980/3140

Professional Pentium Station

- Intel Zappa Triton Chipset w/256K Write Back Cache
- Intel Pentium™ Processor
- 8MB 72-pin RAM up to 128MB Simm
- Western Digital 312OOA 1.2GB 10ms
- Teac 1.44MB Floppy Drive
- 2 Hi-Speed Serial Ports, 1 Enhanced Parallel Port
- Diamond Stealth 64 PCI 2MB VRAM 64 Bit Graphics
- Acerview 76i 17" NI .28dp 1280x1024 Digital Green Monitor
- Acer AV52T 101 Enhanced Keyboard
- Microsoft V2.0 Serial Mouse w/Pad
- Deluxe Super Mini Tower 5-Bay/250W Power Supply
- Toshiba 5302 4X Internal Enhanced IDE CD-ROM
- Creative Labs Sound Blaster 16 Vibra Sound Card
- 3Com 3C590B Etherlink III Combo
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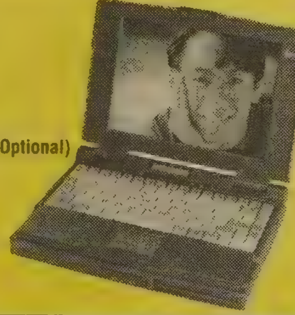

Specifications:
- Genuine Intel 486 or Cyrix Pentium CPU Processor
- **4MB RAM (8MB, 16MB, 20MB or 32MB Optional)**
- 32 Bit Local Bus Windows Accelerator
- 1MB RAM Supports 1024x768 at 256 Colors
- 10.4" Dual Scan 640x480, 0.3mm, 256 Colors
- 10.4" Active 640x480, 0.3mm, 64,000 Colors
- External CRT 1024x768NI, 256 Colors
- **Ultra Fast 2.5" 540MB Upgradable HD (810MB/1GB Optional)**
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- 2 Type II Slots or 1x Type III PCMCIA Slots
- One Modular, 86-Key Reverse T Keyboard
- Touch-Sensitive Trackpad
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- Built-in Speaker and Microphone
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- 1x Line-in, 1x Line-out & 1x Microphone Jack
- Intelligent Power Management
- Rechargeable Ni-Battery
- Windows 3.1, DOS 6.22; Audio Recorder, Reminder • Durable Carrying Case

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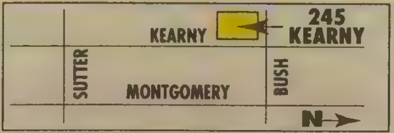

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4MB Main Memory
IDE Floppy/Hard Disk Controller
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32 Bit VLB Graphic Accelerator w/1MB
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101 Keys Enhanced Keyboard
Optional:
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2 Serial, 1 Parallel Printer Ports
1.44MB Floppy Drive
540MB Hard Drive
32 Bit VLB Graphic Accelerator w/1MB
14" Non Interlaced SVGA Color Monitor (0.28)
101 Keys Enhanced Keyboard
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1.44MB Floppy Drive
540MB Hard Drive
32 Bit VLB Graphic Accelerator w/1MB
14" SVGA Non Interlaced Monitor (0.28)
101 Keys Enhanced Keyboard
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$999

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Cyrix 586-100MHz CPU w/Built-In Math Co-processor
4MB Memory
IDE Floppy/Hard Disk Controller
2 Serial, 1 Enhanced Printer Port
1.44MB Floppy Drive
540MB Hard Drive
32 Bit VLB Graphic Accelerator w/1MB
14" NI SVGA Color Monitor (0.28)
101 Keys Enhanced Keyboard
Optional:
Upgrade to 1.08GB Add $69

Pentium PCI Multimedia

Mini Tower Case w/230W Power Supply
SiS Pentium PCI Mainboard
256KB External Cache Memory
CPU Cooling Fans & Heat Sink
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15" KFC Monitor (Flat Screen, 1280x1024 Hi-Resolution)
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Creative Lab 2x Double Speed Kit $99.99

Sound Blaster Pro Stereo Sound Card
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(300ms, 300kb/Sec, Multisession)
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1 FREE CD Title

Creative Lab 4x Quad Speed Kit $199.99

Sound Blaster 16-Bit Stereo Sound Card
Teac (55A) 4x Quad Speed CD Rom Drive
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Pair of Magnetic Shielded Speakers
1 FREE CD Title

Toshiba 4x Quad Speed Kit $229.99

Creative Lab's 16 Bit Stereo Sound Card
Toshiba (5302B) 4x Quad Speed CD Rom Drive
(150ms, 600kb/Sec, Multisession)
Pair of Magnetic Shielded Speakers
1 FREE CD Title

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Media Vision (Pro Audio Spectrum) 16 Sound Card With SCSI Controller Built-in
Sanyo 4x Quad Speed CD Rom Drive (SCSI)
(175ms, 600kb/Sec, Multisession, CD-I)
Pair of Magnetic Shielded Speakers
1 FREE CD Title

NEC 2x Double Speed (SCSI) $109.99

Media Vision (Pro Audio Spectrum) 16 Sound Card
With SCSI Controller Built-in
NEC (210) 2x Double Speed CD Rom Drive (SCSI)
(250ms, 300kb/Sec, Multisession, CD-I)
Pair of Magnetic Shielded Speakers
1 FREE CD Title
NEC (511) 4x Quad Speed (SCSI)....$259.99
(175ms, 600kb/Sec, Multisession, CD-I)

CD ROM Drives

Panasonic 2x (AT-Bus) CD ROM Drive	$69.99
Epson 2x (IDE) CD ROM Drive	**New $59.99**
Teac (IDE) 56e 6x Quad speed CD ROM Drive (135ms, 900kb/Sec)	**New $239.99**
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Toshiba (SCSI) 5301B 4x Quad speed CD ROM Drive (150ms, 600kb/Sec)	**$209.99**
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NEC (210) 2x Double speed CD ROM Drive	**$59.99**
NEC (511) 4x Quad speed CD ROM Drive	**$209.99**
NEC (512) 6x Six speed CD ROM Drive	**$319.99**
Sanyo 4x Quad speed (SCSI) CD ROM Drive	**BEST $159.99**

Sound Cards

Audio Plus Sound Card (8 Bit)	**$29**
Jazz 16 Sound Card (MCD)	**$49**
Mega Wave 16 Stereo Sound + 32 Voice Wave Table card	**$109**
Sound Blaster 16 Stereo Sound Card (IDE)	**$67**
Sound Blaster 16 Sound Card (Panasonic) w/ASP	**$79**
Sound Blaster AWE 32 Sound Card	**$149**
Sound Blaster AWE 32 (up to 29MB Memory)	**$269**
Turtle Beach (Montecarlo) 16 Sound Card	**$69**
Media Vision 16 Sound Card w/SCSI	**Super Deal $59**
MPEG Video Play Back Display Card	**$169**
CD Caddy Try	**$2.99**

Memory Sale

1MB/4MB (30pins)	$38/125
4MB/8MB/16MB/32MB (72pins)	$125/260/479/999
4MB/8MB/16MB/32MB (72pins x36) w/Parity	$150/300/600/1159
4MB/8MB/16MB (EDO)	$140/280/600

Main Board w/CPU

ISA Main Board	
486-40/66 SLC (Vesa Local Bus)	$59/69
486 Main Board VLB w/128K Cache	
Cyrix 66/80/100Mhz	$119/129/159
AMD 66/80/100/120 Mhz	**Best** $119/129/169/189
Intel 66/100Mhz	$179/179
Upgrade to PCI w/256K Cache	add $39
Alaris (VLB) MainBoard, CPU & 256K Cache	
IBM 486-75Mhz	$149
NexGen Pentium 90/100Mhz	$319/499
Pentium PCI MainBoard (Built in 4 PCI-EIDE & Hi Speed IO Ports & 256K Cache)	
SiS-P75/90/100/120/133Mhz	$329/399/459/559/729
Intel Triton P75/90/100/120/133 Mhz	$359/429/479/555/729
Intel Zappa P75/90/100/120/133Mhz	$409/489/539/629/799
(TRITON) Pentium w/PipeLined Burst 256 Cache & Voltage Regulator	
P75/90/100/120/133Mhz	$444/509/569/649/819
Intel Endeavor Pentium w/PipeLined Burst 256 Cache + 16 Sound Card (Stereo)	
P75/90/100/120/133 Mhz	$555/619/679/759/929
CPU Cooling Fans	**Add $10**

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Mono Graphic Card w/Printer Port	**$25**
16 Bit SVGA Card with 256K/512K/1MB RAM	**$29/39/59**
16 Bit Windows Accelerator w/1M (16M Color)	**$69**
32 Bit Windows Accelerator w/1MB (VL-Bus)/(PCI)	**$69/79**
S3 Trio 64 Graphic Card w/1MB (PCI)	**New $95**
Diamond Stealth-64 w/1MB (PCI)/(VLB)	**$119/129**
Diamond Stealth-64 *Video* w/2MB (PCI)/(VLB)	**$169/179**
Diamond Stealth-64 *Video* w/2MB Video RAM (PCI)	**$249**
Diamond Stealth-64 *Video* w/4MB Video RAM (PCI)	**$429**
ATI Mach 32 (Graphic Wonder) w/1MB (VLB)	**Best Price $79**
ATI WinBoost (Expression) w/2MB (PCI/VLB)	**$175**
ATI Winturbo (Mach 64) w/2MB VRAM (PCI)	**$249**
Media Vision SVGA (VL-Bus)w/2MB Video RAM	**New $135**
#9 Vision 330 (PCI/VLB) S3 Trio 64, 2MB DRAM	**$169**
#9 Motion 771 (PCI/VLB) S3 968, 2MB VRAM	**$279**
Matrox Graphics-Millennium (PCI) 2MB/4MB VRAM	**$329/479**

Floppy Drive Sale

Fujitsu 1.2MB (5 1/4")/1.44MB (3 1/2")	$37.99/27.99
Teac 1.2MB (5 1/4")/1.44MB (3 1/2")	$42.99/32.99

Hard Disk Sale

IDE	
SamSung (IDE) 850MB/1.08GB/1.2GB-11	**New** $189/209/239
Conner(IDE) 120/540/850MB, 1.2GB(11ms)	$89/169/199/259
Maxtor(IDE) 540/850MB, 1.2GB/1.6GB (11ms)	$179/199/259/399
WD(IDE) 635/850MB, 1.2GB/1.6GB (10ms)	$179/199/279/399
Quantum 540/840MB/1.08GB	(Mode 4) $179/209/219
Fujitsu 540MB/1.08GB (11ms)	**Best Price** $159/219
SCSI	
Conner 540MB,1.06/2.1/4.3GB (8.5ms)	$179/319/669/1049
Quantum 540/840MB 1.08/2.1/4.3GB (8.5ms)	$189/229/289/689/999
Fujitsu 525MB/1.08GB	$189/309
Fast/Wide SCSI Drive 8.5ms	
Fujitsu 1.08GB	$399
Quantum 2.1GB/4.3GB	$899/1099
Seagate 1.08GB/2.1GB/4.3GB	$469/799/1155

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Hi Speed I/O (2-16550 UART, 2P-Enhanced)	**$34.99**
Printer Port Card	**$9.99**
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16 Bit IDE w/Hi Speed I/O Ports	**Best $19.99**
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32 Bit Enhanced IDE with Hi-Speed I/O Ports	**$24.99**
PCHDE Only	**$19.99**
PCHDE Controller w/Hi Speed I/O Ports	**$34.99**
PCI- IDE Caching Controller (infopedia)	**$109.99**
Promise 4030 (VLB) IDE Caching Controller	**$99.99**
Promise 5030 (PCI) IDE Caching Controller	**$129.99**
Adaptec 1522/1542C (ISA) SCSI Controller	**$75/175**
Adaptec 2940/2940W PCI SCSI Controller	**$199/249**
AdvanSys SCSI Controller (ISA)/(VLB)/(PCI)	**$139/169/159**
Bus Logic BT946C	**$169**

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14" Flat Screen Monochrome Monitor	$79
14" VGA Mono Monitor	$99
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15" KFC Flat Screen SVGA Color Monitor (0.28) Digital	$339
17" KFC Flat Screen SVGA Color Monitor (0.28) Digital	$589
17" KFC Flat Screen SVGA Color Monitor (0.26) Digital	$629
15" MAG-DX15F Flat Screen SVGA Monitor (0.28)	$379
17" MAG-DX17F Flat Screen SVGA Monitor (0.26)	$649
Sony OEM Trinitron 0.25 Monitor	
15" (Trinitron 0.25 Tube) SVGA Monitor	$429
17" (Trinitron 0.25 Tube) SVGA Monitor	$729

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14,400 Fax Modem Int./Ext. + Voice	**$52/75**
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PCMCIA 14.4 Fax Modem/Voice	**$99/129**
PCMCIA 28.8 + V. 34 Fax Modem Int.	**$199**
U.S. Robotic 14,400 Fax Modem	**$99**
U.S. Robotic 28,800 V.34 Fax Modem Int./Ext.	**$199/219**

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Conner Tape Drive	
420/850MB, 4GB	**$139/199/ 529**
Conner Tape Cartridge (QIC)	
420/850MB, 4GB	**$15/29/39**

NetWork Card Sale

D Link16 Bit Ethernet Card Combo (RJ45, BNC)	**$34**
3Com 3c509B COMBO Ethernet Card (RJ 45, BNC)	**$119**
T Connector/Terminator	**$2**
Coax Cable w/BNC Connector 10/25/50/100 ft	**$5/9/14/19**

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Chicony 101 ** Natural ** Keyboard	**New $49**
NMB 101 Click Enhanced Keyboard	**$49**
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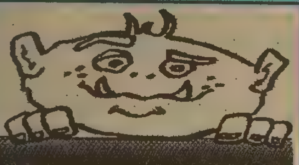

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AMD 486DX2-80	$859
AMD 486DX4-100	$909
AMD 486DX4-120	$929
Cyrix 486DX2-66	$849
Cyrix 486DX2-80	$859
Intel 486DX2-66	$929
Intel 486DX4-100	$969

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1.44MB Floppy Drive (3 1/2")
540MB Hard Drive (14ms)
32 Bit VL-Bus Video Card /1MB
14" SVGA, N.I. Monitor (.28dp)
101 Key Enhanced Keyboard

AMD 486DX2-66	$779
AMD 486DX2-80	$789
AMD 486DX4-100	$819
AMD 486DX4-120	$849
Cyrix 486DX2-66	$779
Cyrix 486DX2-80	$789
IBM 486SLC2-66 w/*64k	$789
Intel 486DX2-66	$839
Intel 486DX4-100	$879

PCI-Bus SYSTEM

Mini Tower Case w/230W P.S.
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3 -PCI Bus Slot Motherboard
4MB Ram Memory (72 Pin SIMMS)
1.44MB Floppy Drive
540MB IDE Hard Drive
1 MB PCI Video Card
16 Million True Color Display
14" N.I. SVGA Monitor (.28dp)
101 Key Enhanced Keyboard

AMD 486DX2-66	$819
AMD 486DX2-80	$829
AMD 486DX4-100	$859
AMD 486DX4-120	$889
Cyrix 486DX2-66	$809
Cyrix 486DX2-80	$819
Intel 486DX2-66	$869
Intel 486DX4-100	$909

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8MB Ram Memory (72 Pin SIMMS)
1.44MB Floppy Drive
1.08 GB Hard Drive
PCI - 1 MB Video Card
- 16 Million True Color Display
15" Flat Screen Monitor (.28dp)
101 Enhanced Keyboard

1.08 GB!!
Hard Drive
15"Monitor

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Pentium 90 MHz	$1349
Pentium 100MHz	$1449
Pentium 120MHz	$1649
Pentium 133MHz	$1849

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VL-1MB video
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VL-Bus IDE
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1.44 MB Floppy drv
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101 Keyboard
mouse

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cpu cooling fan w/ heatsink
16MB Ram Memory
1.2GB Hard Drive (256k buffer)
Diamond Stealth Video 64 PCI /2MB
1.44MB Floppy Drive (3 1/2")
PCI-IDE built-in; *Fast I/O* ports
Sound Blaster Awe 32 sound card
Toshiba 4X CD-ROM drive - IDE
240 watt Multimedia Stereo speakers
17" Mag SVGA Monitor (.26dp), MPR II
101 Keytronic Keyboard
Microsoft ergonomic mouse

Pentium 90Mhz	$2719
Pentium 100Mhz	$2819
Pentium 120Mhz	$3019
Pentium 133Mhz	$3099

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8MB to 16MB RAM Memory(72p)	Add $275	Mini to Medium/Full Tower	Add $30 / 50
8MB to 32MB RAM Memory(72p)	Add $730	VLB to PCI M.B. w/PCI Video...	Add $95
16MB to 32MB RAM Memory(72p)	Add $490	256KB to 512 KB Cache	Add $50
540MB Hard Drv. to 850MB (IDE)	Add $45	14" SVGA,N/I to 15"/17"	Add $119 / 350
540MB Hard Drv. to 1.0GB (IDE)	Add $175	15" SVGA to 17"	Add $250
850MB Hard Drv. to 1.0GB (IDE)	Add $85	486 CPU Cooling Fan	Add $10

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- 1 Pair of Shielded Speakers
- Sound Card software
- CD Deluxe Pack 4 CD

Multimedia Upgrade Kits

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FREE 1 Pair of Shielded Speakers
FREE Sound Card software
FREE CD Deluxe Pack 4 CD

PENTIUM MULTIMEDIA

Best Deal!

Medium Tower w/230W P.S.
PCI-Bus Intel chipset Motherboard
w/256K Cache Memory
cpu cooling fan w/ heat sink
16MB Ram Memory
Adaptec 2940 SCSI PCI Controller
1.44MB Floppy Drive (3 1/2")
1.0GB Conner SCSI Hard Drive
Diamond Stealth *Video 64* PCI / 2MB
Toshiba *4X SCSI* CD-ROM drive
Sound Blaster 16 sound card
240 watt Multimedia Stereo speakers
15" SVGA, Digital Monitor (.28dp)
Microsoft Natural Keyboard
Microsoft Mouse

Pentium 100Mhz	$3039
Pentium 120Mhz	$3239
Pentium 133Mhz	$3399

! HOT Specials !

Diamond Stealth Video 64 - *PCI / 2MB VRAM*	$259
Toshiba 4X 5302B IDE-(190ms,600KB/s) ,256K buffer	$169
Teac 6X IDE-(140ms, 900KB/s) , 128K buffer - *limited supply*	$254.99
Pro PC TV (PC to TV/VCR external Adapter)	$179.99
Multi Pro CTV (Mac/PC to TV/VCR external Adapter)	$279.99
NexGen NX586 P-90 VL-Bus/256K Cache mb, cpu+fan	$269
Supra Express Ext. Fax/Modem 14.4 / 28.8[Win95 compt.]	$119/189
28,800 Fax/Modem v.34	$125.99
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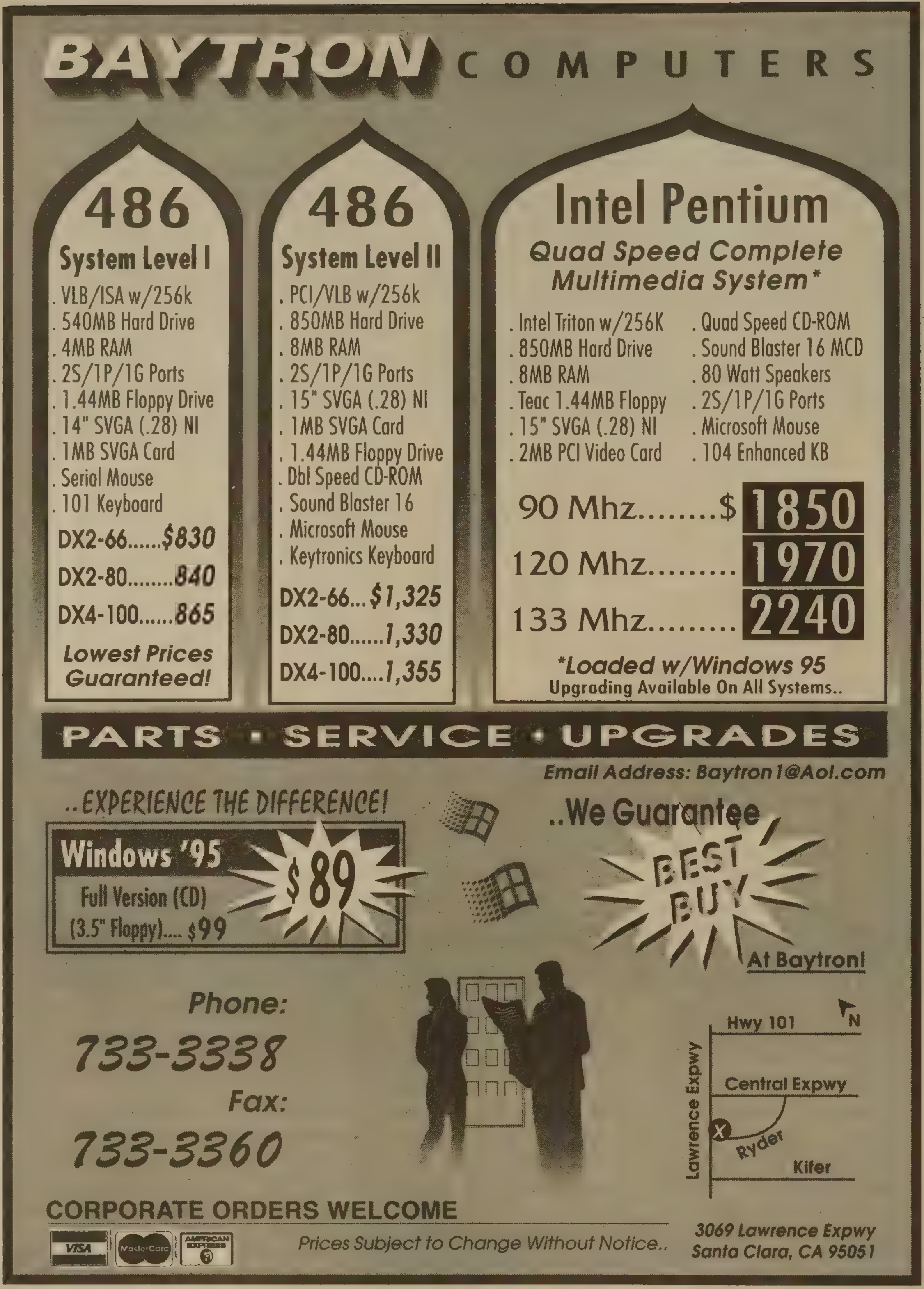
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. 540MB Hard Drive
. 4MB RAM
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. 1.44MB Floppy Drive
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. 101 Keyboard
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DX4-100......865
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DX2-66...$1,325
DX2-80......1,330
DX4-100....1,355

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Insights

continued from page 18

different numbers until they find the random number you used. The larger the random number, the longer it will take for them to find it. The method that Netscape uses to encrypt the session is supposed to use a random number so large it would take tens of thousands of hours of computer time just to read that one session.

The bug in the Web browsers was that they used a random number that was not terribly random, and thus could be replicated quite quickly. The UC Berkeley students looked at the Netscape code and found that although the number being generated was quite large, many parts were predictable, and thus not random. The result was the same as if Netscape chose from a much smaller set of random numbers.

This is not an obscure bug. In fact, most cryptography books talk at length about the absolute importance of generating very random numbers.

Netscape has now fixed the bug and assures us that it will have its programs better scrutinized by experts in the future. There is no evidence that any damage was done by the bug since so few people use these kinds of secured transactions.

If the discovery had happened next year when more companies were relying on secure Web transactions, the ramifications could have been much more severe. For example, some banks are testing whether they should let customers read their bank statements and move money between accounts using the Web. If this service was interrupted for a week or more, the inconvenience would start turning some customers to other banks. Worse yet, if the bug was discovered because a great deal of information had been stolen, the loss of confidence in Internet commerce could be devastating.

Netscape is not a villain. In fact, it was very open and honest about the problem immediately. However, this security flaw points out that while Internet commerce is certainly feasible, it's not clear if there are enough safeguards in place today to make it generally as safe as our current methods. Clearly, online banking and merchandise ordering could be much easier than what we have now. The big question is how much security we are willing to take a chance on giving up for that convenience. ■

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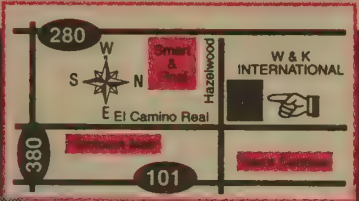
Stock Chart continued on page 272



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Pentium 100	**. . .$2987**
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- Keytronic 104 Windows 95 Keyboard
- Microsoft Mouse
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- Accelerator True 16 Million Colors
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- Qtronix Mouse
- Deluxe Super Mid Tower Case w/230W Power Supply
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MICROTIMES STOCK INDEX TAKES A STEP BACK

Technology stocks eased up for the month ended October 24. Specifically, the Microtimes Stock Index was off 23.99 points, or 0.31%, to the tune of 7807.96, the first decline in the past ten months. In contrast, the Dow Jones Industrial Average rose 21.31 points, or 0.45%, to 4783.66, and the Nasdaq Composite Index climbed 12.70 points, or 1.24%, to close at 1039.24. When results were tallied, declining issues narrowly edged out advancing issues by a 15-to-14 count, and there were seven new 52-week highs vs. two new 52-week lows.

Turning to the stocks in the MicroTimes Index:

For the month, LSI Logic Corp. emerged as the largest dollar and percentage loser in our index as shares dropped 13.75 points, or 22.96%, to close at $46.13. SoundView Financial Group analyst Rick Whittington lowered his earnings estimates for LSI Logic, causing shares to drop. The company reported net income of $66 million for the third quarter ended September 30, compared to net income of $29 million for the year-ago quarter.

Autodesk also fell victim to earnings cuts as shares slipped 9.38 points, or 21.74%, to close at $33.75. Prudential Securities Inc. reduced the future earnings estimates for Autodesk.

Tandy Corp. reported third-quarter net income o $44.9 million, or $0.66 a share, on revenues of $1.3 billion, compared to net income of $46.2 million, o $0.59 a share, on revenues of $1.12 billion, in the same quarter a year ago. In addition, Southcoast c its rating on Tandy to "buy" from "strong buy." Shares for Tandy Corp. dipped 8 points, or 13.36% to close at $51.88.

Motorola Inc. took it on the chin last month as i slid 10.88 points, or 14.24%, before coming to rest a $65.50. Montgomery Securities analyst Matthew Robison lowered his rating on Motorola Inc. from "buy" to "hold." In more upbeat news, Motorola' International Cellular Infrastructure Division (ICID has been awarded a contract, valued at approximatel $160 million, to expand cellular phone service i Thailand. ■

EXCH	COMPANY	TICKER SYMBOL	CLOSING PRICE 09/27/95	CLOSING PRICE 10/24/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL IVIDEN RATE	ANNUAL IVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE										
OTC	Adobe	ADBE	51.00	54.75	3.75	7.35	78	0.20	0.37	66.50	27.25
OTC	Autodesk	ACAD	43.13	33.75	-9.38	-21.74	23	0.24	0.71	53.00	30.75
OTC	Borland	BORL	14.13	14.38	0.25	1.77	-	0.00	0.00	17.25	6.00
OTC	Informix	IFMX	32.75	29.63	-3.13	-9.54	46	0.00	0.00	34.38	11.63
OTC	Microsoft	MSFT	88.63	97.50	8.88	10.01	38	0.00	0.00	109.25	58.25
OTC	Novell (L)	NOVL	18.06	14.25	-3.81	-21.11	18	0.00	0.00	23.25	14.00
OTC	Oracle	ORCL	38.00	43.50	5.50	14.47	44	0.00	0.00	47.00	24.75
OTC	Software Publishing	SPCO	4.56	3.69	-0.88	-19.18	46	0.00	0.00	6.25	2.88
OTC	Symantec	SYMC	28.50	29.38	0.88	3.07	29	0.00	0.00	33.25	15.00
	HARDWARE										
OTC	Apple	AAPL	36.25	35.13	-1.13	-3.10	10	0.48	1.37	50.13	33.63
OTC	AST Research (L)	ASTA	10.25	9.75	-0.50	-4.88	-	0.00	0.00	19.13	7.50
NYS	Compaq (H)	CPQ	46.50	54.63	8.13	17.47	16	0.00	0.00	55.38	31.13
NYS	Digital Equipment (H)	DEC	42.63	53.50	10.88	25.51	357	0.00	0.00	55.25	29.00
OTC	Dell (H)	DELL	81.50	91.63	10.13	12.42	19	0.00	0.00	95.63	36.75
NYS	Hewlett-Packard (H)	HWP	82.75	91.25	8.50	10.27	21	0.80	0.88	95.00	45.88
NYS	IBM	IBM	94.38	98.00	3.63	3.84	10	1.00	1.02	114.63	68.88
NYS	Silicon Graphics	SGI	35.13	33.88	-1.25	-3.56	25	0.00	0.00	45.63	27.50
OTC	Sun Microsystems (H)	SUNW	58.38	73.88	15.50	26.55	18	0.00	0.00	74.63	29.88
NYS	Xerox (H)	XRX	130.50	134.50	4.00	3.07	18	3.00	2.23	138.50	90.63
NYS	Tandy	TAN	59.88	51.88	-8.00	-13.36	17	0.72	1.39	64.38	41.13
	CPU'S										
NYS	Advanced Micro Devices	AMD	29.13	26.25	-2.88	-9.87	10	0.00	0.00	39.25	22.38
OTC	Intel	INTC	59.31	68.00	8.69	14.65	19	0.16	0.24	78.38	28.75
NYS	LSI Logic	LSI	59.88	46.13	-13.75	-22.96	28	0.00	0.00	62.50	18.25
NYS	Motorola	MOT	76.38	65.50	-10.88	-14.24	21	0.40	0.61	82.50	51.50
	COMMUNICATIONS										
NYS	AT&T (H)	T	65.88	61.13	-4.75	-7.21	23	1.32	2.16	66.38	47.25
NYS	BellSouth Corp.	BLS	73.13	76.50	3.38	4.62	17	2.88	3.76	76.75	50.50
OTC	MCI	MCIC	26.25	24.63	-1.63	-6.19	42	0.05	0.20	27.13	17.25
NYS	Northern Telecom	NT	35.25	33.50	-1.75	-4.96	20	0.44	1.31	41.00	31.25
NYS	Pacific Telesis	PAC	30.38	29.75	-0.63	-2.06	12	2.18	7.33	32.13	25.63

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES	14
DECLINES	15
UNCHANGED	0
NEW HIGHS	7
NEW LOWS	2

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER	Sun Microsystems	$	15.50
LARGEST DOLLAR LOSER	LSI Logic	$	-13.75
LARGEST PERCENTAGE GAINER	Sun Microsystems		26.55 %
LARGEST PERCENTAGE LOSER	LSI Logic		-22.96 %

	CLOSE 09/27/95	CLOSE 10/24/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	7831.95	7807.96	-23.99	-0.31
DOW JONES INDUSTRIAL AVERAGE	4762.35	4783.66	21.31	0.45
STANDARD & POOR'S 500 INDEX	581.04	586.56	5.52	0.95
N.Y.S.E. COMPOSITE	311.32	312.90	1.58	0.51
NASDAQ COMPOSITE	1026.54	1039.24	12.70	1.24

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
04/12/95	6270.71	4197.81
05/10/95	6571.21	4404.62
06/07/95	6982.06	4462.03
07/05/95	7437.77	4615.23
08/02/95	7501.51	4665.85
08/30/95	7787.50	4604.57
09/27/95	7831.95	4762.35
10/24/95	7807.96	4783.66

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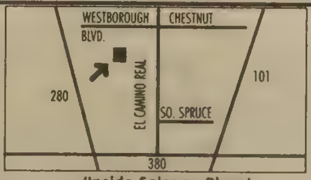

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UNIX *continued from page 56...*

Meaning #7: Microsoft

Although there were no references to Microsoft in the announcements of the deal, anyone who produces a "high-volume" operating system product is competing with Microsoft. ("High-volume" is a code word for "Intel-based desktop computers.")

These days the right to call something **UNIX is won by** demonstrating compliance with the **specification, not by** building a system on the source code owned by **AT&T, Novell, and now SCO.**

In selling its UNIX technology, Novell is opting out of that competition, and this is a major change in strategy: the strategy of producing a SuperNOS (Network Operating System) has been replaced with a strategy emphasizing Novell's role as a provider of network services.

By buying UNIX from Novell, SCO has paid good money for the right to compete with Microsoft all by itself in the multitasking desktop operating system contest.

SCO has done well in selling its UNIX products. In 1994, SCO was responsible for more than two hundred thousand of the 1.25 million new UNIX installations. In number of units sold, SCO is second only to SunSoft in the UNIX market. Novell's portion of the market was about seventy thousand units. (Measured by revenue, SCO's position in the industry changes radically: its 1994 gross revenues were $200 million in a $26 billion market.)

But it's not clear that doing well in the UNIX market is the same thing as doing well in competition with Microsoft. The only bright spot in this for SCO is that Microsoft is a minority (14%) shareholder and presumably has some interest in SCO's success.

Maybe Linus Torvalds will do us all a favor and forward the UNIX chain letter to Bill Gates.

For Further Information:

SCO has the most detailed information on the SCO, HP, Novell alliance. See its Web pages at *http://www.sco.com* .

HP and Novell also publish pages about the agreement: *http://www.hp.com* and *http://www.novell.com* .

For a summary of the single UNIX specification and a history of the ownership of UNIX through 1994, see the X/Open web site: *http://www.xopen.org* . ■

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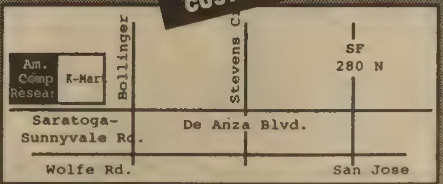

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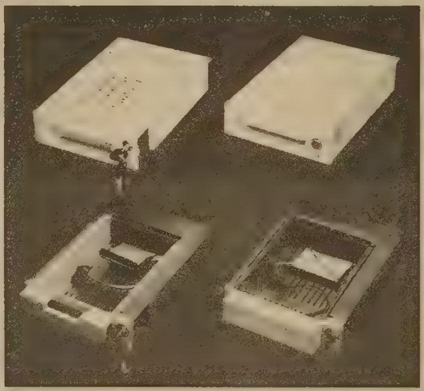

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Small Office/Home Office

continued from page 72...

blocks. Even on my antiquated 386 the maps come up fast.

I am curious how they got so much data on one CD-ROM. To check the maps for accuracy, I looked up my home. I entered my address. The program thought for twenty seconds and then painted my neighborhood. A house symbol sat directly over the spot where I live. The map included an odd jag in the street that frequently misleads drivers. I also looked up an intersection in a small town in Vermont we visited (and got lost in) last summer. That map too was accurate, down to a bend in the road by the river. At larger magnifications, towns and cities and main roads are painted in while the detail is omitted. The printed maps are just as good as the on-screen charts, and can be made in color or black and white.

Maps can be annotated with text, symbols, or white-background notes. The result can be printed (and you are given a license to use them personally or internally in your business) or posted on the Web. This is one of those products that can pay for itself the first time it keeps you from getting lost in a strange city, or when you send a map to a customer who wants to find you.

DeLorme's Phone Search USA is a three-CD set that interlocks with Street Atlas USA. You can look up a name in Phone Search. In this it is much like the American Business Information products, and Phone Search also lets you search by SIC (Standard Industrial Classification) codes. The unique advantage of Phone Search is that you can switch to Street Atlas to get a map of the location you have just found.

Because Street Atlas was so good, I was prepared to love Phone Search. Then I found the SIC searcher on my copy did not work. I could not find myself in it, though I have been listed for over ten years. Like Eleven Million Businesses from ABI, it found only one of our four offices. So I can recommend Street Atlas USA, but not the companion Phone Search. It is too bad—if Phone Search USA were a bit more complete, the combination of Street Atlas and Phone Search would be unbeatable!

Deep Research: Bible Windows

Many bodies of information now coming out on CD-ROM are intended for depth-questioning. You may return to them again and again with questions that lead to other questions, looking at the same documents from dozens of viewpoints.

As more and more business is the pure exchange of information, the value that a small business adds is frequently found in permutation. The small-business person is the one who knows how to ask good questions and to arrange information in new patterns.

Lawyers (those best-paid of scholars) do this for a living. So does anyone who is embedded in a textual lineage which is important to them. One tradition which has entered the CD market is Biblical studies. My favorite small business in Cedar Hill, Texas, is Silver Mountain Software, where John Baima publishes Bible Windows.

John has now come out with a CD that has it all. All? Yea verily. It has the Bible in English (using the RSV), the New Testament in Greek, the Hebrew Scriptures in Hebrew. And it has early translations. Seventy Jewish scholars created their own translation from Hebrew to Greek in Alexandria, two centuries BC. The Septuagint, their translation, is on the CD. The ornery St. Jerome translated the

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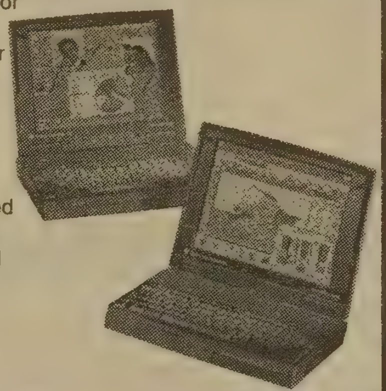

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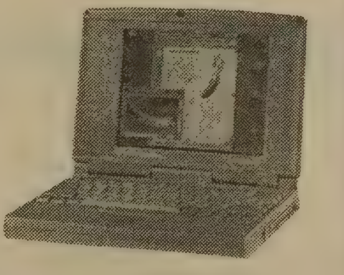

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whole Bible into Latin; this Latin Vulgate is also aboard. There are dictionaries for the languages, and grammatical analysis tools. It really is all on one CD.

Bible Windows is a perfect example of the advantage a CD-ROM drive confers on researchers. I was a user of Bible Windows on hard disk. The proliferation of texts got so large that I finally had to erase the whole program. It was not that it was bad—I had to dump it because it was too thorough and too big. Now that all the texts and tools are on one shining disc in the CD drive, I can use it again.

In Bible Windows, a scholar can select a Greek word in the New Testament. Then by opening the Greek Old Testament, you can find what words ancient Jewish scholars thought it corresponded to in Hebrew. A hop to the Hebrew texts, and there are those Hebrew words in context. Check the dictionaries and find what other uses those words had in contemporary writings. One can pursue ideas like "neighbor" and "justice" back through their early history in our culture's parents.

If you are stifling a yawn at this point, remember that Baima has done for a specialized market what Microsoft has done for a mass market with the Microsoft Bookshelf. Important literary and legal documents from many cultures are rapidly joining the CD-ROM library. Dr. Steven Goodman of the Institute for Buddhist Studies in Berkeley tells me that pious lay people in Southeast Asia are paying to have the Theravadan Buddhist Canon entered on CD-ROM. Law libraries are already there.

The incredible density of information on a CD makes possible a new kind of quick, in-depth research that was beyond most of us just a few years ago.

The Usual Caveats

There are two. The fastest CD-ROM is slower than a hard disk drive in many ways. Be prepared for a wait of some size. But if the indexing has been done with great care, you will get faster access to a million records on a CD-ROM drive than you will to the same amount of data on an unindexed hard drive. Therefore you want to ask if the CD-ROM you are buying is adequately indexed.

If you think that a body of data on CD-ROM means no hard drive overhead, think again. You need to have several megs of hard drive space for the program which loads and operates the CD-ROM.

How much? Microsoft Bookshelf's directory on my hard drive was 1.46MB. Bible Windows took 2.91MB. American White Pages wanted 3.03MB. These are not huge amounts of hard drive overhead for the amount of data you are getting—but if you have many CD-ROM applications, they add up.

Finding CDs On The Internet

If you are intrigued by the possibilities of a CD-ROM drive but my chosen applications are not for you, you can shop for CDs on the Internet. Yahoo and Webcrawler will help you find them.

Some are listed independently, such as the Orient Business Express CD (*http://www.aloha.com/~dan/obecd.html*) which says it is a "CD-ROM directory of businesses in Hong Kong, Indonesia, Korea, Malaysia, the Philippines, Singapore, Taiwan, and Thailand."

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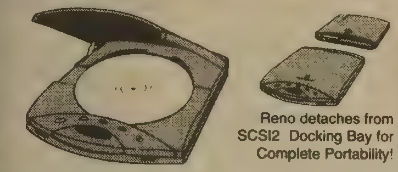
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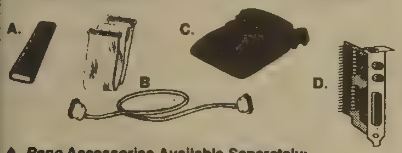

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- CS-550 by Labtec (pictured below) has:
  - Volume control, Bass boost switch, Treble-boost switch, measures 4" x 4" x 6"
  - CS-550 has 40 - 16000 Hz freq. response, 3" speakers, and power light.
  - 4 watt amplifiers (uses 2 C-cells per side)
- Both feature magnetically shielded enclosures, "enhanced bass-response cabinet design", and attractive beige styling.

MSS-1000 HSC# 15127 Pair/ $6.95

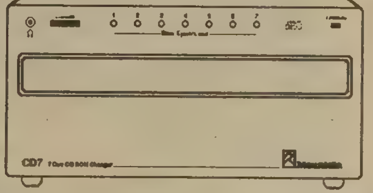
CS-550 HSC# 15517 Pair/ $9.95

Dealer Inquiries Invited...

Quantity Discounts Available!

Seven Disk CD-ROM Changer

- Mountain Network Solutions **CD7** Changer
  - Seven-disk CD-ROM Changer holds over 3.5 Gigabytes of storage! SCSI-1 and SCSI-2 selectable interface, headphone jack on front panel, line-level audio outputs at rear.
  - Brand new in OEM box, selectable 110/220 VAC input, 90-day warranty, measures 7.75" x 4" x 12.75".
  - Windows and DOS driver disks, manual included. Works in IBM DOS/Windows environment with Adaptec, Trantor & Future Domain SCSI Controllers with supporting ASPI Drivers (not included). Will work on Mac with special driver available from Ocean Systems (not us, ask for info).
  - Access time avg. 300 KBps (sustained double speed), 1500 KBps (burst)
  - Occupies one SCSI address, appears as seven logical drives to system. Perfect for BBS or Website!



CD7 CD-ROM Changer HSC# 15641 $199.95

Pentium Motherboard

- New-in-box 66 MHz PCI Pentium Motherboard (no CPU)
- Four PCI Slots, Four 16-bit ISA Slots, uses 72-pin SIMM's
- ZIF Socket allows easy CPU insertion
- 256K Cache RAM installed, supports up to 1MB Cache
- CPU clock rates from 30 to 66 MHZ supported
- PCI clock rates from 20 to 33 MHz supported
- User's Manual included, ninety-day warranty on board

HSC# 15661 $79.95

Tektronix Test Equip.

- Previously-owned, tested Tektronix Scopes & Plug-ins
- In-stock items as of press time, call for current selection

Mainframes:		
7704A	200MHz 4-Bay	$325
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7A26	200MHz 5mV-5V Dual Trace	$175
7A29	1GHz 10mV-1V Single Trace	$625
Timebase Plug-ins:		
7B10	2nS-.2S 1GHz Triggering	$325
7B15	2nS-.2S Delaying, Delta-T	$350
7B71	2nS-5S Delaying, x1, x10	$125
7B85	1nS-5S Delaying, x1, x10	$250
7B92A	.5nS-.2S Dual, Delay	$300
Miscellaneous Plug-ins:		
7D11	100nS-1S Digital Delay	$195
7D13A	3.5 Digit DMM, CRT R/O	$125
7D15	225MHz Universal Counter, R/O	$275
7T11	0pS-5mS Sampling Sweep Unit	$750

Network Card Bargain!

- Racal Interlan 16-Bit Ethernet Cards
- High Quality US Product, 10-Base-T or AUI
- Manual, Software included
- NE2100 Compatible, NI6510 Compatible
- Handy 5-pack contains 5 cards, 1 Manual and 2-disk software pack)
- *Summer Special -- New Lower Price!*

HSC# 15364 $99.95 / 5pk.

High Power AA NiCads!

- New Kenwood AA NiCad Batteries
- High quality, new, shrink-wrapped
- 1.2V at 800 mAh!
- Regular AA NiCads are only 300mAh
- Standard charge 15 hrs. @ 80mA
- Sorry, no quantity discounts

HSC# 15281 $2.99 / pr.

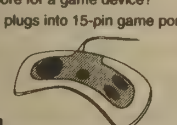
Lower CD/ROM Prices!

- Tested Good CD/ROM Drives removed from systems
- 90-Day Warranty ◆ 1x, 2x and 3x Speeds available
- Sony is proprietary interface, others are 50-pin SCSI
- Sanyo, Sony are tray-type (no caddy needed)

Sony CDU-31 1X-Drive	**HSC# 15650**	**$35.00**
Sanyo CDR-H93MV 2X-Drive	**HSC#15584**	**$59.00**
NEC CDR-510 3X-Drive	**HSC# 15327**	**$99.00**

Bargain Game Controller!

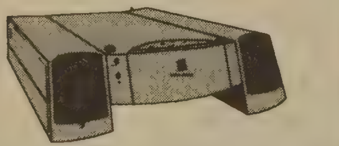
- Quickshot QS-191 Game pad for IBM Compatibles
- Faster action, less fatigue than a joystick
- Why pay more for a game device?
- Brand new, plugs into 15-pin game port



HSC#15594 $3.95

Multimedia Kit Deal #2

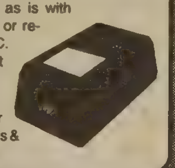
- Mediavision ***Memphis*** Kit (Limited Quantities Available)
  - Consists of used, tested good SCSI double -speed drive, custom enclosure, and detachable Bose active speakers with 10W/Channel amplifiers.
  - Requires 12VDC 2.5A Adapter, not included. We may have some suitable adapters by press time, inquire about possible substitutes when ordering.
  - We don't have the interface cable, but you could make your own SCSI Cable to connect to your SCSI sound card (see below). Unit has a high-density 44-pin connector, or remove it and fabricate your own hookup.
  - Midi ports and audio jacks on back, NEC CDR210 CD/ROM Drive has tray, does not need caddies.
  - Awesome sound from Bose speakers!



Mediavision *Memphis* kit HSC# 15566 $139.00

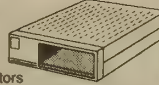
Handy Power Supplies

A) Linear supply rated at 12VDC @ 1200 mA. Input is strapped for 240 VAC input, use as is with 110VAC for lower voltage output, or re-strap it for 110VAC use at 12VDC. Measures 2.5 x 4 x 6.5", IEC cord not included. **HSC# 14980 $5.95**



B) Standard 6' IEC power cord for use with above supplies, misc. colors & styles, used. **HSC# 80119 $.99**

SCSI Disk Drive Case



- Low-profile case for 5.25" drives
- Perfect for lower-power drives
- 9.5" x 2.5" x 10.5" overall size
- 50-pin SCSI daisy-chain connectors
- Internal audio cable, RCA jacks on back, SCSI ID switch
- Uses External 15-16VDC, 1-2A Supply (Not Included)
- Internal Regulator board can deliver +5, +12 @ 1.5A

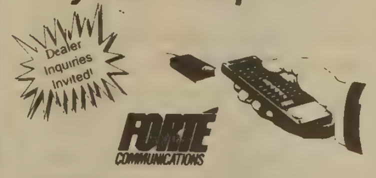
HSC# 15245 Low-Profile 5.25" Drive Case $17.95

Trackball for Mac!

- Mouse Systems A³ Trackball for ADB-type Mac's
- "Three-button Power Control Panel" Software
- High Resolution (680 dpr) for smooth, fingertip operation
- 100% A/UX, MacX, X Window and Mac OS compatible
- Multi-mode operation: Standard or 3-Button Power
- Reassignable buttons for left- or right-handed use
- New in box with software, 90-day warranty

HSC# 15432 $27.50

Remote Control for your Computer!



- Infrared Remote operates your computer from 50 feet
- Perfect for sales presentations, training, demonstrations
- Serial Interface (IBM version) or ADB (Mac version)
- Handheld remote is 7" x 2.5" x .5"
- Included software provides screen pointer for emphasis
- Keystroke mapping table can be customized, saved
- Roam the room, make eye contact with your audience
- Like using a TV set remote control (easy to set-up, use)

HSC# 15240	**IBM Remote Keyboard**	**$29.95**
HSC# 15241	**Mac Remote Keyboard**	**$39.95**

Motor Mania!

- Small (1.5" x 1.5" x 1") Stepper Motor, 13.2VDC, .45A/Φ, 200 steps per revolution. **HSC# 15597 $5.95**
- Medium (1.5" dia. x 3") Pittman Motor, 19.1 VDC, with optical shaft encoder. **HSC# 15654 $9.95**
- Large (3.25" dia. x 6.25") 20VDC @ 5.7A Sanyo Denki permanent magnet DC Reel Motor, 9/16" shaft is stepped down to 1/2", 580rpm, or use as 70W generator! Attention robotics enthusiasts...this is a heavy-duty beauty! **HSC# 15327 $27.50**

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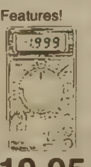
- Low-cost Digital Multimeter with High-end Features!
- 3.5 Digit, case measures 2.75" x 5" x 1"
- DCV to 1KV, ACV to 750
- DC Current to 10A, Ohms to 2 Meg
- Diode, Transistor check with hFE
- Test Leads, 9V Battery included.
- Brand New, 90-day warranty



HSC# 80370 $19.95

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- Mouse Systems NewPoint Trackball for DOS/Windows
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- High Resolution in a small package
- 100% DOS and Windows compatible
- Mini-trackball with two buttons, ergonomic shape
- Clamps to keyboard, comes with padded carrying case
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Look for *MicroTimes* on the following cover dates:

11/27/95, ISSUE #144
Fun & Games: The 3rd Annual Holiday Gift Guide

Our annual no-work, all-play issue, spotlighting the best of games, educational software, multimedia, and other fun stuff to get you ready for the holiday season.

12/18/95, ISSUE #145
Annual California Dealers Guide

Featuring Northern and Southern California listings of retailers, VARs, and consultants, and the services they offer. Of particular interest to business-oriented users, this issue serves as a year-round reference.

1/1/96, ISSUE #146
The MicroTimes 100

Our annual salute to those who had a significant influence on the computer industry during 1995, from software giants to local heroes.

For the distribution point near you in Northern California, call the distribution department at (510) 934-3700; or in Southern California, (213) 851-8600.

MICROTIMES
FREE

(*http://www.cdromshop.com/cdr/home.html*) says they have fifteen hundred titles IN STOCK! Two more I found were CD-ROM Software by Telecentral (*http://www.a1. com/tlcental/*) and a page that seemed to be under construction, CDROM Plus+ (*http://rampages.onramp.net/~powerv/*). I have not used these services myself, but they certainly provide good places to browse through titles.

Bottom Line: Is A CD-ROM Worth The Cost?

I started out skeptical, I came away convinced. No doubt about it. And it is worth the money to buy a fast drive—any product you will use a lot is worth accessing quickly. Accept nothing under quad (4X) speed, and seriously consider NEC's attractive MultiSpin 6X. ■

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RESOURCES

MultiSpin 6X CD-ROM Reader
Internal 6Xi:,$484
External 6Xe,$581
NEC
1-800-615-5566

Microsoft Bookshelf
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Microsoft Corp.
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Silver Mountain Software
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continued from page 94

ROM drive, controller, and additional bus slots, all for $300. The WinBook Docking Station also includes an external line-in/line-out jack for multimedia peripherals, a speaker jack, and its own volume control. Standard parallel, serial, keyboard, PS/2 mouse, and VGA video ports are also provided.

If you decide to go for a WinBook XP as a multimedia machine, it may be worth your while to spend a little extra money and buy one with an active matrix color display, rather than the default dual scan. The dual scan display panel is adequate for business applications and tasks, but does a mediocre job of rendering video for Windows. (You can, of course, simply plug a standard SVGA monitor into the WinBook for video watching. The Western Digital graphic adaptor can handle a 1024 x 768 pixel external noninterlaced display with 256 colors or 800 x 600 with sixty-five thousand colors.)

The New Media Bus Toaster is a PCMCIA SCSI card. It includes converters for both 50-pin SCSI-2 and the standard Centronics SCSI interface. The Bus Toaster is designed for people who already have an external CD-ROM drive floating around on another computer. A model like the Toshiba XM3401 can do double duty. Just unplug the drive from its default location and hook it up to the notebook. (I have one of these drives doing triple-duty, occasionally bringing it into the living room for use as a stereo CD player.)

The Bus Toaster includes a full complemen of card management software and Core Systems' CorelSCSI, but with Windows 95, none of this software is necessary. Just plug the car into a PCMCIA socket, and SCSI hard drive and CD-ROM devices are instantly recognized.

Summary

The bottom line on Windows 95 and mobil computing is that it's probably worth your tim and trouble to upgrade on a current high-en machine. You don't have to wait for next year' models with Plug and Play BIOS, CD-ROM, an PCI bus implementions. The operating system' built-in support for PCMCIA peripherals pro vides plug and play for notebooks right now Win 95's bundled email and fax support, net work support, and pleasant, semi- intelligen interface all combine to ease the burdens of travelling Road Warrior. ■

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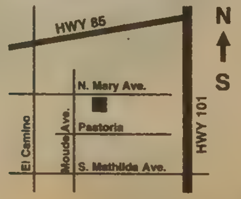

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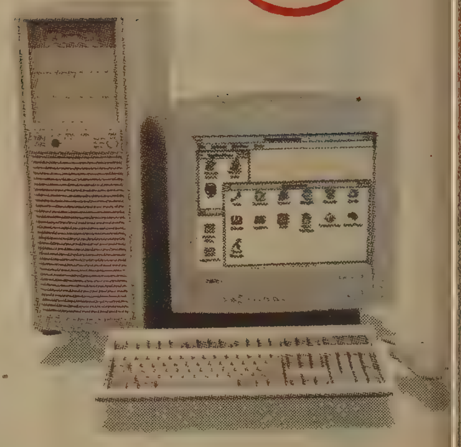

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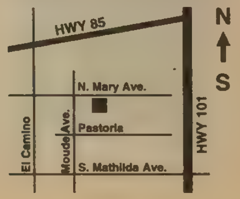

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Online Services

continued from page 112...

users. Local information is key. But then that means that the local Donut Shop owner could care less about the hits on its Web page from cops in Denmark. Getting local people and local businesses together is the main goal, which also provides the resources for civic activity online as well.

The other side of the equation is finding the right critical mass of local advertisers who care enough about their businesses to invest in such a venture. Some business people can't see past sweeping out the store each evening, sure. But if the recent demographic surveys of Internet users have any validity at all, services like EasyAccess provide smart local marketers with another way to communicate with a highly educated group of people who spend money.

Maybe this is still only 10–15% of any given community, if that. Yet, except for computer equipment, this group doesn't tend to buy online either. Where do they spend their money? In town, of course. So what better way is there to get that high-profile group to shop at your store—or mall, for that matter—or eat at your bistro, or sip espresso at your fancy cafe, than being there to tell your potentially best customers to, "Come on down."

Starting to sound like a newspaper, isn't it? Both the *San Jose Mercury News* and *Los Angeles Times*, in addition to hundreds of newspapers across the country, offer online services to provide local information to dial-in subscribers. Before Knight-Ridder bought the company, even suburban-based Lesher Communications began offering the real estate listings from its Sunday edition on a Web page (*http:// ccnet.ccnet.com/homenet/*).

Can an EasyAccess survive these deep-water publishing sharks and still be there by the time you read this? I'll bet on it. Because the *Merc*s and the *Times* have a hard enough time these days selling print ads, let alone pitching Flash Gordon to retailers.

The big media organizations actually need hit-the-beach efforts like EasyAccess to educate the early adopters. If anything, that experience will be valuable and marketable cache when the executives at big-time TV get done taking meetings and are ready to roll.

Small businesses also will find service providers like EasyAccess a valuable partner. Obviously, big companies like a Coldwell Banker, the national real estate company, can manage its own Web site without the help of Will Hearst (*http://coldwellbanker.com*). But many more smaller companies who don't have the resources to buy or grow Internet expertise in-house will find these startups a bargain. EasyAccess Information System, 355 West Olive, #103, Sunnyvale, CA 94086; (408)523-5800 (telephone); *info@easyaccess.com* (Internet email); *http://www.easyaccess. com* (Web). ■

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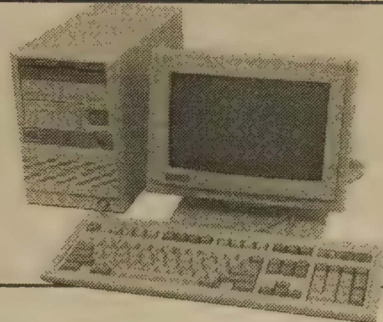

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Clever Intellectual Property Title

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Ann Winblad

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Within the venture community I believe there are varying views on the value of patents and legal fortification of software innovations. Patents are expensive and many are not defensible. Also the creation of a patent is in effect the disclosure of technical progress to the entire competitor community. Historically, defense of patents within the software industry has been lax. But as software companies grow in size, many now have budgets for outside and inside counsel that work on defense of and creation of patents. All and all, patent activity—both in creation of and defense of—is increasing in the software industry.

Customers themselves do not go out and buy patents; they buy solutions. Creating intellectual property value in many ways is easier than creating a customer franchise. The customer franchise is a greater competitive fortification than intellectual property. Good product architectures, appropriate use of existing standards, creation of reusable core technology libraries, and even selection of the right deployment platforms are, for most software companies, more important issues than ownership of patents.

Jill Alofs

Total Clearance
(415)389-1531, *totalclear@aol.com*

In terms of multimedia negotiations for preexisting content, besides identifying what the rights issues are and locating the parties, the next step is discussing the strategy with the developer on how to best negotiate the deal to obtain the rights for the specified usage of the developer's product. In that regard, I have found that there are no set rates, there are no set standards on what the fees are, but that can really work to our advantage. For example, with a photographer whose photographs you're using and for which you've already handled the depiction rights, sometimes it's possible to actually negotiate to give credit listings and information—where they're going to be exhibiting, or where you can purchase their latest book—that can offset some of the monetary payments. The creative part and the really interesting thing is coming up with these creative suggestions, because maybe the money isn't as valuable as having this additional exposure.

It's mainly educating the content holders and establishing a sense of trust, educating them on what exactly is multimedia and the intent of your new product, and assuring them that you are in fact not going to manipulate or change, or if you are going to, letting them know that up front. Frequently, their material will be changed, and I don't find that generates an automatic negative response. They just really want to understand and know up front what it is you intend to do with it. The possibility of exposure to a whole new audience that these individual content holders might otherwise not be able to attract is very valuable to them. ■

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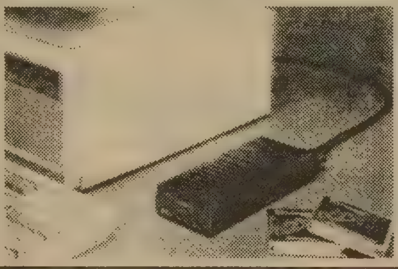

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MODEL# GP34301
☐ 8.6ms Fast ☐ 512KB Cache ☐ 3.5" Half Height
☐ 7200 RPM ☐ 5 Year Warranty
EXTERNAL UNIT $992

2.2GB **$646**
FAST SCSI-2
MODEL# VP32210
☐ 9ms Fast ☐ 512KB Cache ☐ 3.5"x1" Low Profile
☐ 5400 RPM ☐ 5 Year Warranty
External Unit $696

840MB **$220**
FAST SCSI-2
MODEL# 30850TRS
☐ 14ms Fast ☐ 128KB Cache ☐ 3.5"x1" Low Profile
☐ 4500 RPM ☐ 3 Year Warranty
External Unit $270

Quantum

1.0GB **$218**
FAST ATA-2
MODEL# 31080FBA
☐ 12ms Fast ☐ 128KB Cache ☐ 3.5"x1" Low Profile
☐ 5400 RPM ☐ 3 Year Warranty
Model # 31080FBS Fast SCSI-2 ......$285

731MB **$172**
FAST ATA-2
MODEL# 30730LTA
☐ 11ms Fast ☐ 128KB Cache ☐ 3.5"x1" Low Profile
☐ 4500 RPM ☐ 2 Year Warranty
Model # 30730LTS Fast SCSI-2 ......$171

340MB **$95**
FAST SCSI-2
MODEL# LPS340S
☐ 12ms Fast ☐ 128KB Cache ☐ 3.5"x1" Low Profile
☐ 3600 RPM ☐ 2 Year Warranty
External Unit $145

CONNER

2.1GB **$669**
FAST SCSI-2
MODEL# CFP2105S
☐ <9ms Fast ☐ 512KB Cache ☐ 3.5"x1" Low Profile
☐ 5400 RPM ☐ 5 Year Warranty
EXTERNAL UNIT $719

850MB **$189**
MODEL# CFS850A
Enhanced IDE
☐ <15ms Fast ☐ 64KB Cache ☐ 3.5"x1" Low Profile
☐ Up to 13MB/sec Trans Rate ☐ 3600 RPM ☐ 1 Year Warranty
All Other Models ....$Call

635MB **$175**
IDE DRIVE
MODEL# CFS635A
☐ <15ms Fast ☐ 64KB Cache ☐ 3.5"x1" Low Profile
☐ Up to 13MB/sec Trans Rate ☐ 3600 RPM ☐ 1 Year Warranty
All Other Models ....$Call

HEWLETT PACKARD

2.17GB **$679**
FAST SCSI-2
MODEL# HPC3725S
☐ 9.5ms Fast ☐ 256KB Cache ☐ 3.5"x1" Low Profile
☐ 5400 RPM ☐ 5 Year Warranty
EXTERNAL UNIT $729

2.1GB **$899**
FAST SCSI-2
MODEL# HPC2490SE
☐ 8.9ms Fast ☐ 512KB Cache ☐ 3.5" Half Height
☐ 6400 RPM ☐ 5 Year Warranty
EXTERNAL UNIT $949

1.2GB **$339**
FAST SCSI-2
MODEL# HPC3724A
☐ 10ms Fast ☐ 512KB Cache ☐ 3.5"x1" Low Profile
☐ 5400 RPM ☐ 5 Year Warranty
EXTERNAL UNIT $389

IBM

4.3GB **$1579**
FAST SCSI-2
Utrastar XP 94G3196
☐ 8ms Fast ☐ 512KB Cache ☐ 3.5" Half Height
☐ 7200 RPM ☐ 5 Year Warranty
EXTERNAL UNIT $1679

1.0GB **$289**
FAST SCSI-2
DeskstarXP DPES-31080
☐ 10.5ms Fast ☐ 512KB Cache ☐ 3.5"x1" Low Profile
☐ 5400 RPM ☐ NEW MR Head Technology ☐ 3 Year Warranty
EXTERNAL UNIT $339

540MB **$165**
FAST ATA-2
DeskstarXP DPEA-30540
☐ 12ms Fast ☐ 128KB Cache ☐ 3.5"x1" Low Profile
☐ 4500 RPM ☐ NEW MR Head Technology ☐ 3 Year Warranty
Other Models ....$Call

Maxtor®

1.2GB **$259**
FAST ATA-2
MODEL# 71260A
☐ <12ms Fast ☐ 256KB Cache ☐ 3.5"x1" Low Profile
☐ 2 Year Warranty Backed by Maxtor's No Quibble Guarantee
EXTERNAL Parallel Unit $369

850MB **$190**
FAST ATA-2
MODEL# 7850AV
☐ 12ms Fast ☐ 64KB Cache ☐ 3.5"x1" Low Profile
☐ 3,551 RPM ☐ Backed by Maxtor's No Quibble Guarantee
EXTERNAL Parallel Unit $299

540MB **$174**
FAST ATA-2
MODEL# 7540AV
☐ 12ms Fast ☐ 32KB Cache ☐ 3.5"x1" Low Profile
☐ 3,551 RPM ☐ 2 Year Warranty
EXTERNAL Parallel Unit $284

WESTERN DIGITAL

1.6GB **$399**
FAST ATA-2
MODEL# WDAC31600
☐ <10ms Fast ☐ 128KB Cache ☐ 3.5"x1" Low Profile
☐ 5200 RPM ☐ 3 Year Warranty
EXTERNAL Parallel Unit $509

1.2GB **$279**
FAST ATA-2
MODEL# WDAC31200
☐ 10ms Avg Seek ☐ 64KB Cache ☐ 3.5"x1" Low Profile
☐ 4,495 RPM ☐ 3 Year Warranty
EXTERNAL Parallel Unit $389

635MB **$175**
FAST ATA-2
MODEL# WDAC2635
☐ 11ms Avg Seek ☐ 128KB Cache ☐ 3.5"x1" Low Profile
☐ 4500 RPM ☐ 3 Year Warranty
EXTERNAL Parallel Unit $285

FUJITSU

1.0GB **$295**
FAST SCSI-2
MODEL# M1606SAU
☐ 10ms Fast ☐ 512KB Cache ☐ 3.5"x1" Low Profile
☐ 5400 RPM ☐ 500,000 Hours MTBF
EXTERNAL UNIT $345

540MB **$184**
FAST SCSI-2
MODEL# M1603SAU
☐ 12ms Fast ☐ 128KB Cache ☐ 3.5"x1" Low Profile
☐ 4500 RPM ☐ 250,000 Hours MTBF
EXTERNAL UNIT $234

540MB **$160**
IDE ATA-2
MODEL# M1603TAU
☐ 12ms Fast ☐ 128KB Cache ☐ 3.5"x1" Low Profile
☐ 4500 RPM ☐ 250,000 Hours MTBF
EXTERNAL Parallel Unit $270

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100	$1249	$2799
250	$2049	$4259
500	$5969	$11,999
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Quantum
730MB FAST SCSI-2
- **Model#** 30730LTS
- **2 YEAR WARRANTY**
- **11ms FAST, 4500 RPM.**
- **128K Cache Buffer**
- **300,000 Hours MTBF**

$171

E-IDE & SCSI DRIVES
Lightning Series-(4500RPM/128K Cache/2 Yr Warr)

				INT	EXT
730MB	30730LTA	11ms	IDE	$172	$N/A
730MB	30730LTS	11ms	SCSI	$171	$221

Fireball Series-(5400RPM/128K Cache/3 Yr Warr)

1.08GB	31080FBA	12ms	IDE	$218	$NA
1.08GB	31080FBS	12ms	SCSI	$285	$335

TrailBlazer Series-(4500RPM/128K Cache/3 Yr Warr)

420MB	30420TRA	14ms	IDE	$142	$NA
840MB	30850TRA	14ms	IDE	$190	$NA
420MB	30420TRS	14ms	SCSI	$165	$215
840MB	30850TRS	14ms	SCSI	$220	$270

Capella Series-(5400RPM/512K Cache/5 Yr Warr)

2.2GB	VP32210S	8.5ms	3.5"x1"	$646	$696

Grand Prix Series-(7200RPM/512K Cache/5 Yr Warr)

4.3GB	GP34301S	8.6ms	3.5"	$942	$992

Atlas Series-(7200RPM/1MB Cache/5 Yr Warranty)

2.1GB	XP32150S	8ms	3.5"x1"	$789	$839
4.3GB	XP34300S	8ms	3.5"	$1237	$1287

Empire-II Series-(5400RPM/512K Cache/5 Yr Warr)

2.18GB	EMP32181S	8.9ms	3.5"x1"	$New	$Call
4.36GB	EMP34360S	8.9ms	3.5"x1"	$New	$Call
9.10GB	EMP39100S	8.9ms	3.5"	$New	$Call

CONNER
2.1GB FAST SCSI-2
- **Model#** CFP2105S
- **5 YEAR WARRANTY**
- **<9ms FAST, 5400 RPM.**
- **512K Cache Buffer**
- **Up to1,000,000 Hours MTBF**

$669 External ... $719

Enhanced IDE DRIVES
FileProSeries-(3,600RPM/64K Cache/1-3 Yr Warranty)

850MB	CFS850A	<15ms	3.5"x1"	$189
1.27GB	CFS1275A	<15ms	3.5"x1"	$259

FilePro Advantage Series- (4,500RPM /256K Cache / Up tp 16.7MB/s Data Trans Rate / 1-3 Yr Warranty)

540MB	CFA540A	12ms	3.5"x1"	$Call
850MB	CFA850A	<12ms	3.5"x1"	$Call
1.27GB	CFA1275A	<12ms	3.5"x1"	$369

FAST SCSI-2 DRIVES
FilePro Series-(5,400RPM/512K Cache/5 Yr Warr)

				INT	EXT
1.0GB	CFP1060S	9ms	3.5"x1"	$278	$328

FilePro Performance-(512K Cache/5 Yr Warr)

1.0GB	CFP1080S	11ms	5400RPM	$291	$341
2.1GB	CFP2105S	8.5ms	5400RPM	$669	$719
2.1GB	CFP2107S	8.5ms	7200RPM	$699	$749
4.2GB	CFP4207S	9ms	7200RPM	$1079	$1129

Maxtor
1.2GB Enhanced IDE
- **Model#** 71260A
- **2 YEAR WARRANTY.**
- **<12ms / 4,500 RPMs.**
- **256K Cache Buffer.**
- **Audio Video Ready.**

$259

Enhanced IDE DRIVES

540MB	7540AV	12ms	3.5"x1"	$174
850MB	7850AV	12ms	3.5"x1"	$190
1.2GB	71260A	Audio Video <12ms	3.5"x1"	$259
1.6GB	71626A	<12ms	3.5"x1"	$356

IBM
1.0GB FAST SCSI-2 DRIVE
- **Model#** DPES-31080
- **3 YEAR WARRANTY**
- **10.5ms FAST, 5400 RPM.**
- **512K Cache Buffer**
- **500,000 Hours MTBF**

$289 External ... $339

FAST SCSI-2 DRIVES
Deskstar XP Family-(MR Head Technology/3 Yr Warr)

				INT	EXT
540MB	06H7142	12ms	IDE	$165	$N/A
540MB	06H8559	12ms	SCSI	$187	$237
1.0GB	DPES31080	10.5ms	SCSI	$289	$339

Satsuma Family- (3 Year Warranty)

728MB	94G2647	12ms	SCSI	$228	$278

Ultastar XP Family-(MR Head Technology/5 Yr Warr)

2.3GB	94G3192	7.5ms	7200RPM	$1040	$1090
4.5GB	94G3198	8ms	7200RPM	$1579	$1629
5.1GB	06H8431	8ms	Audio Video	$1914	$1964
5.3GB	94G3794	7.5ms	7200RPM	$1919	$1969

Seagate
4.3GB FAST SCSI-2
- **Model#** ST15230N
- **5 YEAR WARRANTY**
- **9ms FAST, 5411 RPM.**
- **512K Cache Buffer**
- **800,000 Hours MTBF**

$999 External ... $1049

Enhanced IDE DRIVES

850MB	ST5850A	12ms	Fast ATA-2	$209
1.08GB	ST51080A	12ms	Fast ATA-2	$244

FAST SCSI-2 DRIVES
Hawk Series-(5411RPM/512K Cache/5 Yr Warr)

				INT	EXT
1.0GB	ST31230N	9ms	3.5"x1"	$397	$447
2.1GB	ST32430N	9ms	3.5"x1"	$716	$766
4.3GB	ST15230N	9ms	3.5"	$999	$1049

Barracuda Series-(7200RPM/8ms Avg Seek/5 Yr Warr)

2.1GB	ST32550N	512KCache	3.5"x1"	$864	$914
4.3GB	ST15150N	1MBCache	3.5"	$1349	$1399

Elite Series-(5,400RPM/1MB Cache/5 Yr Warranty)

9.0GB	ST410800N	11ms	5.25"	$2099	$2199

WESTERN DIGITAL
1.6GB Enhanced IDE
- **Model#** WDAC31600
- **3 YEAR WARRANTY**
- **<10ms FAST, 5200 RPM.**
- **128K Cache Buffer**
- **Up to 16.6MB/s Trans Rate**

$399

Enhanced IDE DRIVES

635MB	AC2635	*NEW*	3.5"x1"	$175
850MB	AC2850	<10ms	3.5"x1"	$191
1.0GB	AC21000	*NEW*	3.5"x1"	$228
1.28GB	AC31200	<10ms	3.5"x1"	$279
1.6GB	AC31600	<10ms	*NEW*	$399

HEWLETT PACKARD
1.2GB FAST SCSI-2 DRIVE
- **Model#** HPC3724S
- **5 YEAR WARRANTY**
- **9.5ms FAST, 5400 RPM.**
- **512K Cache Buffer**
- **800,000 Hours MTBF**

$339 External ... $389

FAST SCSI-2 DRIVES

				INT	EXT
1.2GB	C3724S	9.5ms	3.5"x1"	$339	$389
217GB	C3725S	9.5ms	3.5"x1"	$679	$729

MICROPOLIS
1.7GB FAST SCSI-2 DRIVE
- **Model#** MC2217
- **5 YEAR WARRANTY**
- **10ms FAST, 5400 RPM.**
- **512K Cache Buffer**
- **300,000 Hours MTBF**

$649 External ... $689

FAST SCSI-2 DRIVES

				INT	EXT
1.75GB	MC2217	10ms	3.5"	$649	$689
2.0GB	MC4221	8.5ms	3.5"x1"	$819	$869
4.0GB	MC3243	8.5ms	3.5"	$1119	$1169
9.1GB	MC1991	11ms	5.25"	$1990	$2090

Audio Video FAST SCSI-2

				INT	EXT
1.75GB	MC2217AV	10ms	3.5"	$699	$739
2.0GB	MC4221AV	8.5ms	1"	$879	$929
4.0GB	MC3243AV	8.5ms	3.5"	$1187	$1237
9.1GB	MC1991AV	11ms	5.25"	$2159	$2259

FUJITSU
540MB FAST SCSI-2
- **Model#** M1603SAU
- **3 YEAR WARRANTY**
- **10ms FAST, 5400 RPM.**
- **512K Cache Buffer**
- **800,000 Hours MTBF**

$184 External ... $234

Enhanced IDE DRIVES
M160x Series-(5,400RPM/512K Cache/3 Yr Warranty)

540MB	M1603TAU	10ms	PIO 4	$160
1.08GB	M1606TAU	10ms	PIO 4	$219

FAST SCSI-2 DRIVES
M160x Series-(5,400RPM/512K Cache/3 Yr Warranty)

				INT	EXT
540MB	M1603SAU	10ms	3.5"x1"	$184	$234
1.08GB	M1606SAU	10ms	3.5"x1"	$295	$345

Allegro Series-(7,200RPM/512K Cache/MR Head Tech)

2.17GB	M2915SA	9ms	3.5"x1"	$699	$749
4.3GB	M2934SA	10ms	3.5"x1"	$1050	$1100

FAST WIDE
Seagate
FAST WIDE DRIVES

				INT	EXT
1.0GB	ST31230W	9ms	3.5"x1"	$419	$599
2.1GB	ST32430W	9ms	3.5"x1"	$825	$1005
2.1GB	ST32550W	8ms	3.5"x1"	$939	$1119
4.3GB	ST15230W	9ms	3.5"	$1059	$1239
4.3GB	ST15150W	8ms	3.5"	$1349	$1529
9.0GB	ST410800W	11ms	5.25"	$2173	$2423

FAST WIDE DIFFERENTIAL

4.3GB	ST15150WD	8ms	3.5"	$1357	$1607
9.0GB	ST410800WD	11ms	5.25"	$2286	$2586

Quantum
FAST WIDE DRIVES

				INT	EXT
2.1GB	XP32150W	8ms	3.5"x1"	$849	$1029
2.2GB	VP32210W	8.5ms	3.5"x1"	$675	$855
4.3GB	GP34301W	8.6ms	3.5"	$969	$1149
4.3GB	XP34300W	8ms	3.5"	$1369	$1549

MICROPOLIS
FAST WIDE DRIVES

				INT	EXT
2.0GB	MC4221W	8.5ms	3.5"x1"	$969	$1149
4.0GB	MC3243W	8.5ms	3.5"	$1295	$1475
9.1GB	MC1991W	11ms	5.25"	$2329	$2579

Audio Video FAST WIDE

2.0GB	MC4221WAV	8.5ms	3.5"x1"	$1069	$1249
4.0GB	MC3243WAV	8.5ms	3.5"	$1425	$1605
9.1GB	MC1991WAV	11ms	5.25"	$2395	$2645

FAST WIDE DIFFERENTIAL

2.0GB	MC4221WD	8.5ms	3.5"x1"	$999	$1217
4.0GB	MC3243WD	8.5ms	3.5"	$1256	$1556

CONNER
FAST WIDE DRIVES

1.0GB	CFP1060W	9ms	3.5"x1"	$599	$779
2.1GB	CFP2105W	8.5ms	5400RPM	$749	$929
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4.2GB	CFP4207W	9ms	7200RPM	$1169	$1349

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FD-505	COMBO	1.2/1.44	$89

EPSON

SD-700	5.25"	1.2MB	$40
SD-800	COMBO	1.2/1.44	$85

NEC

FD1148	3.5"	1.44MB	$26
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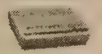

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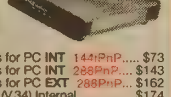

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DB9F to DB25M 6/10/15ft	$3.5/$4.5/$5.99
DB25F to DB25M 3/6/10/15/25ft	$4/$5/$6/$8/$10

High Speed Serial Cards by...
QUICKPATH
16550 Enhanced Serial Boards w/Super IO !

"High Speed Communication Cards"
4 Serial
2 Parallel
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PORT-FOLIO 550E : 13-Port Super I/O 4 High Speed 16550 UARTs 2HD/4FD/2Bi-Parallel, 1Game, Extented IRQ's Support ... $111
FlexPort42-6 Port : 4 -16550 High Speed Serial, 2 Bi-Directional parallel, Extended IRQ'S ... $98

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IO50	16550 High Speed I/O Card 2S/1P/1G	$19
IO45	Standard I/O Card 2S/1P/1G	$12

NoteBook DRIVES
TOSHIBA
2.5" Series -(4,200RPM/128K Cache/1 Yr Warranty)

540MB	MK1924FCV	**13ms**	12.7mm	Up to	$282
810MB	MK1926FCV	**13ms**	12.7mm	16.6MB	$472
1.3GB	MK2720FC	**NEW**	19mm	Trans Rate	$587

Quantum
Daytona Series -(4,500RPM/128K Cache/1 Yr Warr)

341MB	DY341AT	17ms	IDE	$Call
514MB	DY514AT	17ms	IDE	$Call
341MB	DY341S	17ms	**SCSI**	$249
514MB	DY514S	17ms	**SCSI**	$325

Europa Series -(4,500RPM/128K Cache/1 Yr Warr)

540MB	20540EUA	17ms	IDE	$420
810MB	20810EUA	17ms	IDE	$474
1.08GB	21080EUA	17ms	IDE	$534

FUJITSU
Hornet Series -(4,500RPM/256K Cache/1 Yr Warr)

240MB	M2637T	14.5ms	IDE	$258
240MB	M2637SA	14.5ms	**SCSI**	$259

Seagate
Marathon Series-(3,980RPM/120K Cache/3 Yr Warr)

455MB	ST9550AG	16ms	IDE	19mm	$386
524MB	ST9655AG	16ms	IDE	19mm	$319

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The #1 Name in SCSI Controllers

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1542PK	16-Bit BusMaster Fast SCSI-2 PnP Kit ...	$239
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2742T	32Bit Twin-EISA Kit,14HDs Card ..	$315
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Super High Performance Caching/BusMastering Controllers

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PM2021/90	16 Bit ISA Bus Master Kit ...	$164
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PM2022/95	32 Bit EISA Bus Master Kit ...	$315
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PM2122/95	32 Bit EISA *High Performance* ..	$419
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BusLogic

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EIDEMAX	16Bit ISA CoExist w/BIOS up to 8.4GB	$25
EIDE4030+	32Bit VLB Caching 4HD+1 ATAPI CD-Rom	$113
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DC5030	BusMaster PCI IDE Caching Controller .	$125
DC540	BusMaster PCI SCSI WIDE(noCable) ...	$178

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211	16Bit ISA 2HD/2FD w/2Serial\1Par\1Game ..	$15
243	32Bit VLB 2H/2F 2S/1P/1G E-IDE ...	$25
400	16Bit ISA 2HD/2FD 2-16550S/1EPP/1G ...	$19
500	32Bit VLB 2H/2F 2-16550S/1EPP/1GE-IDE .	$27
600	32Bit PCI 4H/2F 2-16550S/1EPP/1G E-IDE .	$36

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GSI Controllers Increase the Performance of IDE & Floppy Drives. Also Doubles the Transfer Rate on Floppy Tape Backups.

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32	16Bit MultiPort IDE,Floppy,Tape High Perf I/O	$104
4C	16Bit 4 channel, 8 IDE Drive Accelerator	$110

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2183	16Bit IDE CD-ROM Controller ...	$10
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with PowerIDE HD & CD drivers for DOS & Windows.

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[illegible]	Similar to Above with BIOS,Dual Chnl 4HD/2FD, >528MB Support (Jumperless) ...	$43
[illegible]	16-Bit ISA,2H/2F,2-16550 High Speed Serial, 1 Bi-Directional Parallel EPP and ECP,2.88 Sup ...	$30
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[illegible]	16-Bit ISA,Dual Chnl 4-H/2F,4-16550 Serial, 2 Bi-Directional Parallel EPP & ECP ...	$59

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EXABYTE®

4.0GB Internal 4200CI Tape Drive Kit

- •Adaptec 16-Bit SCSI Controller Card
- •Backup Software (DOS,WIN or OS/2)
- •Up to 28MB/Min Transfer
- •One Data Cartridge
- •48 Hour Replacement WARRANTY

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External Kit $929

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2501K	Complete Kit for PC ...	$559/$609
4200	2GB up to 28MB/min w/Comp	$775/$825
4200C	4GB up to 28MB/min w/Comp	$777/$827
8205XL	3.5-7GB up to 32MB/min w/Comp	$1218/$1268
8505XL	7-14GB upto 60MB/min w/Comp	$1827/$1877
EXB-BKT	Exabyte 5.25" Bracket for 3.5" Units	$23

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The Most Reliable Tape Backup for MAC,PC or SUN .

4mm DAT SERIES

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C1533A	4-8GB HW Data Comp DDS-2	$979/$1069
C1553A	24-48GB 6-Cart Autoloader cap.	$1962/$2069
HP-BKT	HP 5.25" Bracket for 3.5" DAT Units ...	$25

CONNER

Archive VIPER 1/4" SERIES

			INT	EXT
2150S	250MB	112KB/sec ...	$310 .	$360
2525S	525MB	200KB/sec ...	$422 ..	$472

Python DAT SERIES (4mm)

4320NT	2GB up to 11MB/min - INT/EXT ...	$765/$815
4324NP	4GB Turbo-22MB/min 1MB Cache INT ...	$799
4326NP	4-8GB 5MB/sec 1MB Cache INT ...	$899
4584NP	Int 16GB (Auto Loader DAT) ...	$2168

CONNER TAPE·STOR™

TS420	420MB Runs Off Floppy Port ...	$147
TS420P	420MB Runs Off Parallel Port ...	$289
TS800	800MB (QIC WIDE) TRAVAN ...	$163
TS800P	800MB TRAVAN Parallel Port ...	$297
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DJ35	350MB (JUMBO 350) ...	$116
DJ25	680MB (JUMBO 700) ...	$197
T1000	800MB HP Colorado TRAVAN ...	$174
DJ50	1.4GB (JUMBO 1400) *NEW* ...	$248

POWERTAPE™

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PT10	1.0GB SCSI-2 -1/4" ...	$619/$699
PT25	2.0GB SCSI-2 -1/4" ...	$945/$1089
PT50	4.0GB SCSI-2 -1/4" ...	$1139/$1199
PD60	2-4GB SCSI-2 DAT *NEW* ...	$994/$1089

Trakker

JT35	350MB TRAKKER 350 ...	$260
JT25	680MB TRAKKER 700 ...	$315

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3200	4-8GB 3.5" DDS-DC up to 366kb/s	$753/$869
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5150ES	250MB	6.75MB/min ...	$299/$499
5525ES	525MB	12 MB/min ...	$411/$599
51000HT	1.2GB	17.1MB/min ...	$525/$679
9500DC	5-10GB	36-72 MB/min ...	$826/$979

SCSI BACKUP S/W

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NBOS/2	SINGLE USER FOR OS/2 (Warp Sup) .	$69
NBNET50	NLM 50 USER (DOS) ...	$325
NBNETU	NLM UNLIMITED USERS (DOS) ...	$385
NBNETJr	NLM JUNIOR (DOS) for Networks ...	$188
NBMAC	Nova MAC for Macintosh ...	$65

OPTICALS

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1.3GB Rewritable Optical Drives

NEW!

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Tahiti-3M	*1MB* Cache buffer ...	$1789/$1889
Tahiti-3M	*4MB* Cache buffer ...	$1966/$2066
1.3GB Cart	(512or1024bSector) Glass/Poly	$129/$89

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Rewritable Optical Drives

C1716T	1.3GB 5.25" INT/EXT ...	$1939/$1985
C2550A	1.3GB 5.25" External ...	$2233
C1100A	20GB Ext Juke Box (20XT) ...	$4589
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FUJITSU

DynaMO 2512 230MB 3.5" Optical

2512A/2512B	Internal 230MB Unit ...	$408/$524
	External with 230MB Cart for PC ...	$569
	EXTERNAL w/16 Bit Adapter & Cart for PC ...	$684
	EXTERNAL w/Software,Cable & Cart for MAC ...	$578

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The Next Generation of the 1st Portable Optical Drive

230MAC	Portable 230MB for MAC ...	$699
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230PCAN	Portable for PC (no Interface) ...	$696
Pak-Travel	Battery,charger & travel case ...	$105

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1.3 PC	External w/Adaptec Interface ...	$1739
1.3 PCAN	External for PC (no Interface) ...	$1659
1.3 PCI	Internal w/Adaptec Interface ...	$1729

IBM

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1.3GB Internal 5.25" Removable MO ...	$1599
1.3GB External 5.25" Removable MO ...	$1918

PORTABLE SOLUTIONS

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Quantum

341MB	DY341AT	17ms	IDE	$292
514MB	DY514AT	17ms	IDE	$340
540MB	20540EUA	17ms	IDE	$420
810MB	20810EUA	17ms	IDE	$474
1.08GB	21080EUA	17ms	IDE	$534
341MB	DY341S	17ms	SCSI	$249
514MB	DY514S	17ms	SCSI	$325

TOSHIBA

540MB	MK1924FCV	13ms	12.7mm	$282
810MB	MK1926FCV	13ms	12.7mm	$472
1.3GB	MK2720FC	*NEW*	19mm	$587

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- ♦ Includes Carrying Bag for true portability.($40 Value)
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HD1600	Portable 1.6GB Drive	$539

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adaptec

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T348	Parallel to SCSI Plus 250KB/S	$88
T358	Parallel to SCSI EPP 1MB/S	$116

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U.S. Robotics · Sportster

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28.8	PCMCIA 2.1Fax/Modem	$323

The Only V. Everything Modem !

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28.8	PCMCIA V.34 Dual Standard Data/Fax	$419

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Maxell/3M/Sony	90 Meter ...	$15/$65
Fuji-DG90M	90 Meter ...	$13/$55
Sony/HP	120 Meter(DDS-2) ..	$29/$139
4mm Cleaning Cartridge	...	$20/$95

8mm Data Carts

		Ea./5Pak
Exabyte/Sony	112 Meter up to 5GB ...	$19/$90
Exabyte/Sony	160 Meter XL up to 7GB ...	$29/$140

Mini Data Carts

Sony	QIC-WIDE QW5122F up to 420MB ...	$20/$95
Sony	QIC-WIDE QW3010XLF up to 850MB ...	$26/$125
Sony	QIC-WIDE QW3080XLF up to 4GB ...	$33/$160
3M	DC2750/MC3000 (750MB) ...	$28/$135
EXABYTE	DC2750/MC3000 (750MB) ...	$30/$145
EXABYTE	MC3000XL (1GB) ...	$39/$190
3M	MC3000XL (1GB) ...	$35/$168
3M	MC3000XL Formatted ...	$40/$190
Sony	QD2120 QIC80 up to 250MB ...	$22/$105
Sony	QD2120 unformatted up to 250MB ...	$19/$90
3M	DC2120 Ximat up 250MB ...	$17/$79
3M	DC2120XL Ximat up 350MB ...	$25/$120
Maxell	DC2120 unformatted tapes ...	$15/$69
Maxell	DC2120 QIC 80 formatted ...	$18/$85
Maxell	2120 Cleaning Kit ...	$22/$100
GIGATEK	DC2120 QIC80 up to 250MB ...	$15/$69
GIGATEK	DC2120XL up to 350MB ...	$22/$104

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		Ea./5Pak
Sony	QD6150 - 150MB ...	$17/$79
Sony	QD6250 - 250 MB ...	$23/$104
Sony	QD6525 - 525 MB ...	$29/$140
3M/Maxell	DC6150 - 150MB ...	$16/$75
3M/Maxell	DC6250 - 250MB ...	$22/$99
3M/Maxell	DC6525 - 525MB ...	$28/$135
GIGATEK	DC6150 - 150MB ...	$14/$65
GIGATEK	DC6250 - 250MB ...	$19/$90
GIGATEK	DC6525 - 525MB ...	$24/$109
3M	Magnus 1.2 - 1.2 GB ...	$45/$215
3M	Magnus 2.0 - 2.0 GB ...	$59/$285
GIGATEK	DC9120 - 1.2GB ...	$45/$215
GIGATEK	DC9200 - 2.0GB ...	$59/$285
Maxell	DC-9135 - 1.3 GB ...	$49/$235

3.5" Optical Carts

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3M/Ricoh	128MB 512 bytes/sec ...	$30/$140
Verbatim/Maxell	230MB 512 bytes/sec ...	$47/$219
FUJITSU	230MB 512 bytes/sec ...	$48/$265
KOMAG/Philips	230MB 512 bytes/sec ...	$29/$139
OMD-230HS	230MB Pinnacle Hi Speed Media ...	$39/$190

5.25" Optical Carts

Maxoptix	1.2G-512b/s or 1.3G-1024b/s-Glass	$189
Maxoptix	1.2G-512b/s or 1.3G-1024b/s-Poly .	$149
HP	1.2G-512b/s or 1.3G-1024b/s ...	$109
OMD1200HS	Pinnacle 1.2G 512b Hi Speed (Universal)	$119
OMD1300HS	Pinnacle 1.3G 1024b Hi Speed ...	$119

Blank Recordable CDs

		1/5Pk
540MB	63min Compact Disc SONY ...	$13.59/64
540MB	63min Compact Disc Other ...	$12.50/60
650MB	74min Compact Disc Kodak ...	$16.99/$80
650MB	74min Compact Disc Sony ...	$15.99/$75
650MB	74min Compact Disc Other ...	$13.99/$68
RCD-74	74min Compact Disc Pinnacle ...	$19/$90

SCSI ACCESSORIES

EXTERNAL SUBSYSTEM CABLES

Centronics 50 to 50 Pin SCSI-2 ...	$29
Centronics 50 to DB 25-Pin 3ft/6ft ...	$7/$12
Centronics 50 to Centronics 50 3ft/6ft .	$7/$13
Centronics 50 to DB-50 3ft/6ft ...	$32/$42
Centronics 50 to 68 Pin Fast Wide 3ft/6ft	$49/$55
DB-50 to 50 Pin SCSI-2 3ft ...	$45
DB-50 to DB-50 3ft ...	$39.99
50 Pin SCSI-2 to SCSI-2 3ft/6ft ...	$33/$45
68 Pin Wide to Wide [illegible] ...	$59/$64

INTERNAL RIBBON CABLES

50-Pin SCSI 2/3/4 device ...	$5/$9/$12
50-Pin SCSI 5/6/7 device ...	$14/$18/$22
68-Pin SCSI Fast Wide 3 Connector 2 device	$38
68-Pin SCSI Fast Wide 5 Connector 4 device .	$49
68-Pin SCSI Fast Wide 8 Connector 7 device .	$98

Other Accessories ....

Centronics 50 Terminator Single Dual End	$9/$13
Centronics 50 Terminator ACTIVE w/LED ...	$19
50 Pin SCSI-2 Terminator Passive/Active .	$49/$79
Wide 68 Pin ACTIVE Terminator ...	$39
SCSI-2(M) to SCSI-1(F) Gender Changer ...	$39

EXTERNAL SCSI CASES

CASES

- ♦ High Quality Shielded FCC,UL Approved
- ♦ Universal Auto Voltage Switching 110/240V
- ♦ Terminator,SCSI ID Switch & Cent.50 cable included
- ♦ Designed to fit HD's, CD's, Removable, Optical...

NEW!

Half Ht for 3.5" IDE Drives for parallel Port ...	$109
Half Ht for 5.25" HH or 3.5" Devices(1 Bay) ...	$89
Half Ht for CD-ROMS's w/AudioJacks ...	$99
JMR Chico Case for 3.5"HH Device ...	$119
JMR WIDE Chico 3.5" Drive Case w/Term&Cable ..	$209
JMR Nano Case for 3.5"x1" Device ...	$109
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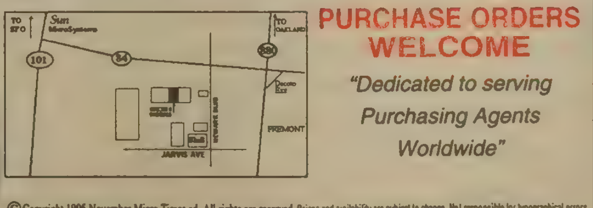

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Public Radio...

continued from page 182

designed the hardware which controls the remote transmitters. Admittedly, we have to put this software on an old DataMaster IBM-clone 386, which polls most transmitter sites at a blindingly fast 1200 baud—but it's fast enough to do the job, and it even has a real color monitor. This computer is programmed to oversee all of our transmitters: it's capable of monitoring sixteen different functions at each of fifteen potential sites, eleven of which are now in use. Via this computer, the station operator/DJ can turn individual transmitters on or off, raise or lower their power, and monitor a variety of other telemetry data beamed back from each transmitter. Should any of the parameters get out of range, the computer will automatically alert the operator, via visual and/or sonic alarms. The computer also automates some tedious tasks, such as turning on all the transmitters in sequence, which the sign-on operator is grateful for at 5 am, I can assure you, since I'm usually that operator. That is, the computer does all these wonderful things if the transmitters aren't troubled by snow and ice, if the telemetry data is actually functioning properly, if, if, if—any number of complications arise, especially in winter.

Another of our critical computers makes the remote control computer look like a futuristic wonder. It's an ancient Compaq: one of those so-called "portable" XTs with the tiny green screen about six inches across. Its name is Zippy, after the famous Pinhead, whose likeness is tacked to the wall above it. Zippy may be mentally stunted, but it still works, and does all we ask. Using prehistoric Sentry Systems software (written for DOS 2.1), Zippy controls the automated operation of our two AM stations, which broadcast a taped mix of news and information, fed from adjoining banks of DAT tape decks, reel-to-reels, and what are known as cart machines, which bear more than passing resemblance to old eight-track tape players. The tapes Zippy controls are taken from the BBC, Monitor Radio, Pacifica, the Canadian Broadcasting Corporation, our own local production, and other sources. These tapes are most often recorded from satellite feeds, arranged on another bank of tape decks adjacent to Zippy. Zippy's an uncomplaining DJ—as long as the station operator has remembered to properly set up the tapes that Zippy expects to be there. (This explains the odd but common phenomenon of a DJ suddenly bursting out of the main control room, exclaiming: "Excuse me! I have to go feed Zippy!") Zippy works well enough without staff intervention that its workings largely remain a mystery to most, except to Program Director John Baxter, who remembers Zippy's youth, and handles the programming.

Another Compaq of Zippy's vintage has the simple but critical task of running the clock program: via modem, it dials up the National Bureau of Standards each day at 4:30 am, and makes sure the time on our studio monitors remains exact, relying on its internal DOS clock for the rest of the day. This is critical for timing local segues with satellite-broadcast shows, which are exacting. The clock program takes few computer brains; but without it, we'd be lost.

Even amidst the digital dinosaurs, though, the new technology is creeping in. The upcoming changes for public radio, though directly threatening, could also end up being positive for JPR and others like us, in unforseeable ways. It's impossible to know. The only certainly is that whatever form change takes, computers will help drive it: perhaps new, powerful computers with functions once confined to the realms of science fiction and magic.

In the meantime, I have to go feed Zippy. ■

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BMUG

continued from page 168...

IN THE *INVESTOR'S BUSINESS DAILY,* SCOTT MCNEALY SAID PEOPLE CONFUSE COMPUTER ACTIVITY WITH CORPORATE OUTPUT AND PRODUCTIVITY. HE CALLED WINDOWS 95 A "PERSONAL ACTIVITY GENERATOR." NO MATTER HOW IT PAINS ME TO ADMIT IT, THIS IS OBVIOUSLY A CHEAP SHOT.

byte more subliminal guilt Please notice [Send cash to David!] that I rejected the obvious joke [It will make you feel better!] of including subliminal messages in this section [$20 bills preferred].

An Apple A Day

Many years ago, when I was BMUG's librarian, I received an audio tape from the Hawaiian Mac users group.

The group was having an election, and one of the candidates sent an audio cassette to all the members that included a verbal appeal to voters as well as a song. The candidate in question was named Apple Pi; yes, this Mac maniac had his moniker changed legally.

Although I seem to remember hearing at a BMUG meeting that he lost the election, Mr. Pi has not given up his presidential aspirations.

Taking a cue from *Time* magazine's granting its Man of the Year award to the computer, Pi believes that computers may be a constituency for his political aspirations. Here's a piece of his samizdat at *www.epf.org/~pi/* .

"Welcome to Pi for President, a work in progress.

"Now is the time for all good hackers to come to the aid of their Pi (Process Integrity). A united effort will produce ultimate results.

"No one can tell someone else what the truth is, because for every opinion there is an equal and opposite opinion. Everyone has the ability to determine what the truth is for themselves. We have a world full of geniuses. We have the technology to facilitate those geniuses to communicate. Anything is now possible.

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"My actual position in this endeavor is to supervise the 'suite of management systems' (mostly on computer) to facilitate problem identification and viable solution-oriented process determination.

"Advisors, experts in the various areas of public interest will be determined from the 'pool' of volunteer participants. Although my name will be on the ballot, I represent a 'team' of experts and technical consultants. The public will be voting for this facilitative team as opposed to a single person whose personality, values, and opinions can be manipulated and distorted very easily in the media."

It's a tough job, but Apple Pi's the viable-solution-oriented-process being to do it.

Tip City

Here are a couple of stray tips that wandered across Planet BMUG, our online service, over the past month:

• Some people are finding running a PowerPC-based Mac with only 8MB of RAM a difficult proposition. There's no doubt that 8MB is often too slim, even for running a bunch of applications simultaneously on older Macs, which use flavors of the 680x0 processor. So if at all possible, try to get enough extra RAM to take you between 12–20MB.

But Power Mac users should check some settings in the Memory control panel that can prevent applications from sending you a low-memory alert message. Here are a few recent suggestions from the *ClarisWorks Journal*, the monthly publication of C•WUG, the Plymouth, MI-based ClarisWorks Users Group (their fax is 313/454-1965).

You should see if your cache setting is too high; the default is 96K. The report said that for most applications 256K of cache gives the best compromise between speed and memory use. You may not get that much extra performance from boosting the cache any higher. Sometimes less really is more!

Virtual memory can also be more important on the Power Macs. Although many people turn it off on 680x0 systems, the setting should be clicked on for the Power Macs or the new PowerPC-based Performas.

If virtual memory is off, the Power Macs load the entire data fork of an application into memory when the program is launched. This can consume a considerable chunk of RAM.

When virtual memory is turned on, the Memory Manager doesn't worry so much about running out of room and loads an application as needed in bits and pieces. It loads only the part that it needs for a particular operation. This may seem like the opposite of how it should function, but the Mac is trying to ensure that it can actually run the program you've launched. You wouldn't like to get halfway through something and find yourself unable to proceed. Actually, the Mac may still tell you to stop (or worse, freeze up) when

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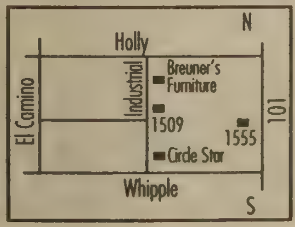

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MICROTIMES

memory gets very low.

In addition, power users of older Macs that have upgraded to the next-generation models may be compounding the RAM problem with previous good habits that are not applicable to the Power Macs.

In the past, hard drives were slow and some people used to pick up the pace with RAM disks, parts of memory that trick the system to believe they are virtual hard drives or floppies.

People used to create a RAM-disk volume and place applications or even the entire System folder into it. It really got things cooking—it still does for some people, especially with PowerBooks. But Power Mac users should see if they are really getting any benefit from using a RAM disk.

This is also how Chad Magendanz's popular shareware ShrinkWrap works when loading image files, which are special archives of floppy disks. Most often used by application installers, the images are loaded into RAM and used just like a disk. But faster.

Remember that ShrinkWrap doesn't recognize virtual memory for loading images; it can only use real physical memory. If you need a little extra RAM for an installation, try telling the Mac to ignore extensions by restarting with the Shift key held down.

•Some Mac notebooks with a grayscale display can support a second desktop monitor, such as the PowerBook 520. But you may have noticed a problem with color when running QuarkXPress.

Even though you've switched to 8-bit 256 colors, the Edit Color dialog box shows everything in gray, and Pantone color swatches seem to be hiding. Everything else in color looks good. What's up?

It seems that the software checks out the display connected to Monitor 1 (the built-in monochrome display) and figures out what features can and cannot be used with the display. Even though you are really using the second color monitor for your work, the software gives more consideration for the primary monitor.

The fix is easy. Open the PowerBook Display control panel and turn off the Video Mirroring setting, then select the external monitor as the primary display. ■

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BMUG is an educational, nonprofit, consumer advocacy group organized to share information and provide critical direction to users and developers in the computer community worldwide. It is an independent advocate, not affiliated with any manufacturer, delivering trustworthy information and useful products.

Like any growing organization, it is many different things to its fifteen thousand international members. BMUG supports many special interest groups (SIGs), 18-line Planet BMUG, and 11-line BMUG Boston BBSes, a software library, weekly meetings, publications, and much more. BMUG also puts out a semi-annual 500-page book that we call our "newsletter."

Our motto continues to be: *We're in the business of giving away information.*

Come and join in the dialogue at the BMUG main meeting every Thursday evening, 6:30–9:30 (or whenever we finish), on the UC campus. BMUG West and BMUG South are monthly meetings held in San Francisco and San Jose. Check the Announcement Line at (510)549-2684 ext. 8.

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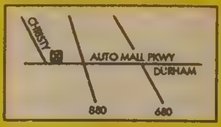

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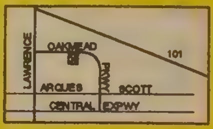

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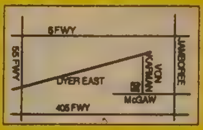

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Novell Network Server Solutions

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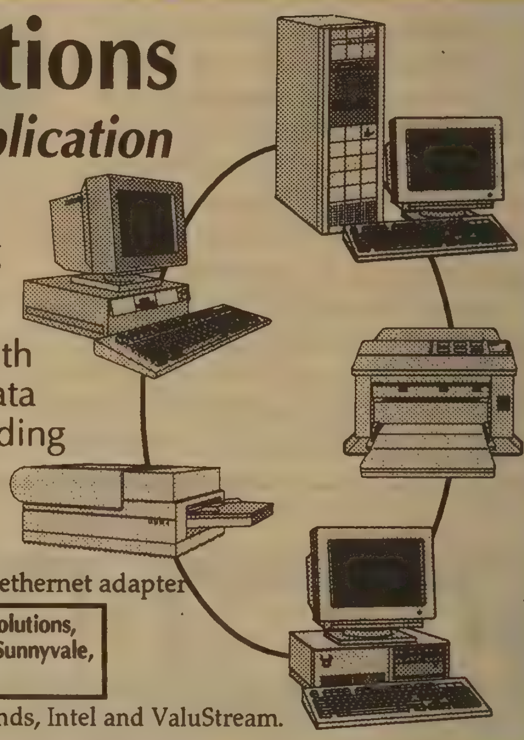

ServerStart™ Allows You to Create the Ideal Network File Server that Maximizes Productivity and Minimizes Downtime, While Reducing the Cost of Owning a Network by as Much as 35%

ServerStart™ Provides Super Efficient Netware® Operating System with Core Services, Increased LAN Performance, Unsurpassed Boot & Data Virus Protection, Easy to Use Network Management Tool & Outstanding User Support (free)

The ServerStart™ Platform integrates:

- Novell NetWare 4.1 (5 to 1000 users), - a 32-bit Network Operating System
- EtherStream PRO/10 for Server & EtherStream PRO/10 for Workstation - 3 media, 16-bit ISA ethernet adapter
- LANScan - a Windows-based network management tool
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MachServer™ Hardware Platform integrates:

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- Serial Mouse
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75MHz	$595
90MHz	695
100MHz	785
120MHz	865
133MHz	1095

American Megatrends Apollo MB Base System

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- Keytronics 101 Keybd
- Serial Mouse
- CPU Cooling Fan

75MHz	$675
90MHz	775
100MHz	865
120MHz	945
133MHz	1095

intel® Endeavor MB Base System

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Online Guide

Web Page Listings

continued from page 122

/TLC The first Internet site dedicated to clinical excellence in Laser Vision Eye Correction. [Exp. #146.]

Toasted *http://www.berksys.com* Berkeley System's Toasted offers everything from traditional product listings, customer support, and general company information. [Exp. #146.]

Tubz *http://www.opendoor.com/Tubz/TubzHmPage.html* The largest selection of jetted and non-jetted bathtubs on the West Coast. [Exp. #146.]

Warp California, Inc. *http://www.warp.com/* Producers of Virtual Television products, site includes product demos. [Exp. #145.]

Wave Rider *http://hoohana.aloha.net/waverider/* Unique Hawaiian T-shirts for any surfer/paddler (water or Internet). Shirts are USA made. [Exp. #146.]

Windjammer Barefoot Cruises *http://www.windjammer.com* Offers descriptions of each ship in the fleet, plus a "News and Specials" section and faq about Windjammer. [Exp. #146.]

Wooden Castle Craftsman *http://www.woodencastle.com/* Custom-drawn blueprints and material quantity estimates for do-it-yourself'ers planning decks, gazebos, additions, and remodeling. [Exp. #147.]

Working Assets *http://www.wald.com/wa/wald* Working Assets provides ways for customers to be effective citizens and philanthropists. [Exp. #146.]

World Shopping & Information Network *http://www.wsin.com* Features brilliant colorful graphics to excite and entertain. Shopping, travel, entertainment, useful resource information, more. [Exp. #145.]

WovenHearts *http://www.wovenhearts.com/* Residential assisted living. Alternative to nursing home care for older men and women. [Exp. #145.]

(x)faktor Design *http://sfaktor.com/xfaktor* Specialized in traditional and electronic design implementation, including advertising, Logo, publication layout, and Web page design. [Exp. #146.]

Zadian Technologies, Inc. *http://www.zadian.com/* San Jose-based Zadian Technologies is a leading developer and manufacturer of test systems for the engineering and manufacturing of I/O peripheral devices. [Exp. #146.]

Zendex Corp. *http://www.zendex.com/* Zendex designs and manufactures microcomputer boards, systems, peripherals, and related products for the Multibus and PC Bus industry. [Exp. #145.]

BUSINESS INFORMATION

AttorneyNet *http://www.attorneynet.com/* An international resource for locating an attorney, including an extensive list of Internet legal sites. [Exp. #146.]

Career Network Magazine *http:// www.earthlink.net/car/eernet/* Online publication of the Career Network's CD-ROM magazine—informative articles, employment classifieds, resumes of hundreds of jobseekers, and color display ads. [Exp. #146.]

Commercial Law League Of America *http:// bankrupt.com/clla/clla.html* Information for those interested in bankruptcy or collections. CLLA, established in 1985, is the oldest creditor's rights organization. [Exp. #147.]

Computer ESP *http://www.uvision.com/* Quickly and easily find comprehensive, organized, up-to-date information on over twenty thousand computer vendors and dealers and their products. [Exp. #146.]

The Computer Price Cruncher *http:// www.killer-app.com/* Free computer price comparisons. One click finds the best among Bay Area stores. [Exp. #146.]

Consumer Mortgage Information Network *http://www.human.com/proactive.index.html* Dedicated to providing home buyers with timely and unbiased information relating to residential financing. [Exp. #145.]

Copyright Website *http://www.benedit.com* A practical copyright resource for netizens and Webmasters. Includes audio of famous copyright infringements. [Exp. #145.]

Credit Union Land *http://www.culand.com* A searchable index of credit unions you can join! [Exp. #145.]

EE/CS Mother Site *http://www-soe.stanford.edu/soe/ieee.eesites.html/* Links to EE/CS corporations, organizations, and schools. [Exp. #146.]

Home Owner's Page *http://www.weblink.com/homeowners/* A directory of contractors, plumbers, electricians, gardeners, and other professionals offering services to home owners. [Exp. #144.]

@Home PC-Biz Info *http://www.earthlink.net/~mspcbiz/* *Make Money With Your PC!* author, Ms. PC-Biz, gives hints, success stories, and advice.[Exp. #146.]

NewWEB *http://www.m2.com/nw.html* World news, updated throughout the day, with an emphasis on computing, communications, and high tech. [Exp. #145.]

R.E.InfoNet—Real Estate Information Network *http://www.reinfonet.com/* An excellent resource for both buyer and sellers. Articles as well as homes for sale. [Exp. #146.]

Saludos Career Web *http://www.hooked.net.saludos/* Devoted exclusively to promoting Hispanic careers and education, supported by *Saludos Hispanos* magazine. [Exp. #146.]

SCOR-Net *http://www. scor-net.com/* The Small Corporate Offering Registration Network. Dedicated to capital formation issues for small businesses. [Exp. #147.]

TechExpo WWW Directory Of Hi-Tech *http://www.techexpo.com/* Directories of: science, engineering societies; technical/engineering trade magazines; high-tech firms, products, services; much more. [Exp. #145.]

ENTERTAINMENT

A Film, Pen, & Brush Conspiracy! *http://www.primenet.com/~fundi/index.html* An Afrocentric byte from the cyber gallery of graphics, photos, and stories from HATARI's Design. [Exp. #146.]

Aloha Dateline *http://www.aimnet.com/~ayl/aloha.htm* "I found love on the Aloha Dateline! It's a fun, safe, exciting way to meet!" [Exp. #145.]

Artist Bros. Enterprises *http://www.cyberverse.com/~piero/artbros.html* Episodic series, comedy, sci-fi, and romance stories; Mighty Morphin Power Rangers information; and other interesting links. [Exp. #146.]

Atomic Eye *http://www.webcom.com/atomic/* Join the continuing adventures of Scuff & Pineapple throughout the metropolis of Los Angeles. [Exp. #147.]

ATP Tour Online *http://atptour.com* The most comprehensive tennis Web page on the Internet, with news and information about men's pro tennis. [Exp. #145.]

Awesome Music Site *http://emusic.com* Music information, superfast browsing, 40,000 album images. Tons of fun. [Exp. #145.]

Batman Forever *http://batmanforever.com* Artwork, trailers, storyboards, behind-the-scenes glimpses into the making of *Batman Forever*, and more. [Exp. #143.]

Baudville *http://www.bville.com/* The scenic route on the Information Superhighway. Art, entertainment, and advertising. [Exp. #147.]

Bay Area Movie Guide *http://www.movietimes.com* Bay Area Movie Guide offers movie listings, information, reviews, links to movie company Web sites, videos, sound clips, publicity photos, and general cinema information. [Exp. #144.]

Big Mouth Publishing *http://www.bookfair.com/publishers/bigmouth/biz/* Publishers Page featuring audio "Instant Guts!", guide to intelligent risk taking in business, creativity, relationships. [Exp. #146.]

BONG Bull *http://www.au.com/bong/* Weekly encyclical of the Burned-Out Newspapercreatures Guild. Newsroom humor for journalists and media junkies. [Exp. #146.]

Boulevards *http://www.boulevards.com/* Quality information about arts, entertainment, and contemporary culture and politics in cities around North America. [Exp. #147.]

Brazilian Mall *http://www.BrazilianMall.com/Brazil* The first Brazilian commercial site, art gallery, business center, newsstand, travel agency, and more. [Exp. #144.]

Burn:Cycle *http://www.burncycle.com/* Explore the wicked world of Burn:Cycle. Use your brain or lose your mind. [Exp. #146.]

California Shakespeare Festival *http://www.via.net/~csf/* Complete information about this season's performances as well as our year round programs. [Exp. #146.]

Castle Wolfric *http://www.best.com/~wooldri/* Sci-Fi Fantasy links, Xanth home page, Trek images, HTML Writers Guild, and more. [Exp. #146.]

Ceolas Celtic Music Archive *http://celtic.stanford.edu/ceolas.html* Home of Celtic music on the net, including tunes, artist profiles, sound samples, resources, etc. [Exp. #143.]

Classic Rock All Stars *http://www.webcom.com/~gsmmedia/crastars* Members from Iron Butterfly, Rare Earth, Sugarloaf, and Spencer Davis Group present their Summer '95 Tour. [Exp. #144.]

Crystal Rain Media Entertainment *http://www.earthlink.net/~crystal* "Hip Hop Animal Rock," award winning aerobic video for children. Sound and video clips. [Exp. #144.]

Cybercize With The CyberSet *http://www.physics.sfsu.edu/grad/lwilliam/cyberset/cyberset.html* Ten fun and easy at your computer exercises with the CyberSet—an online comedy team. [Exp. #145.]

Cybertown *http://www.cybertown.com/cybertown* Cybertown is a 21st century off-world electronic virtual community that provides a rich mix of entertainment, information, and commerce. [Exp. #145.]

Cybertzara *http://www.webcom.com/~cybertza/* Multimedia by Debroah Jaffe's Master/Slave Relationship and her new CD-ROM, *Smut Picture Racket.* [Exp. #146.]

Discover Starving Artists *http://www.starving.com/* An interactive art gallery featuring photography and paintings plus a tour of 19th century Paris. [Exp. #145.]

Edward "Equalizer" Woodward *http://www.deltanet.com/bazaar/equalize.htm* Information and enthusaists' group. Stay up to date with other fans, the Eq/EW International Bullet, and more. [Exp. #146.]

Fadein *http://users.aol.com/anniraff/* Access site for FADEIN, freeware version of how-to screenwriting book; also other screenwriting links. [Exp. #147.]

Flames Magazine *http://www.gold.net/flames/* Flames Web Page features an interactive story that uses the hypertext capabilities of the WWW to achieve multiple narratives. [Exp. #146.]

FLASHERS *http://www.cais.com/artcomic.flashers/html* Daily comics by Elliot Feldman. Bring your own trench coat. [Exp. #146.]

Freehead Web Page *http://www.infinet.com/~ngsippel/freehead.html* New band featuring Jim Smith of the original *Ren & Stimpy Show!* Info, gig schedules, etc. [Exp. #145.]

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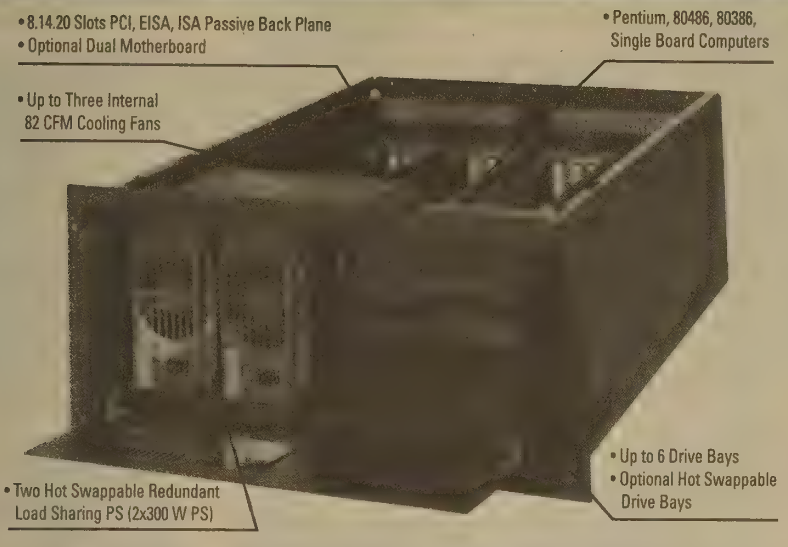

• 8.14.20 Slots PCI, EISA, ISA Passive Back Plane
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• Up to 6 Drive Bays
• Optional Hot Swappable Drive Bays
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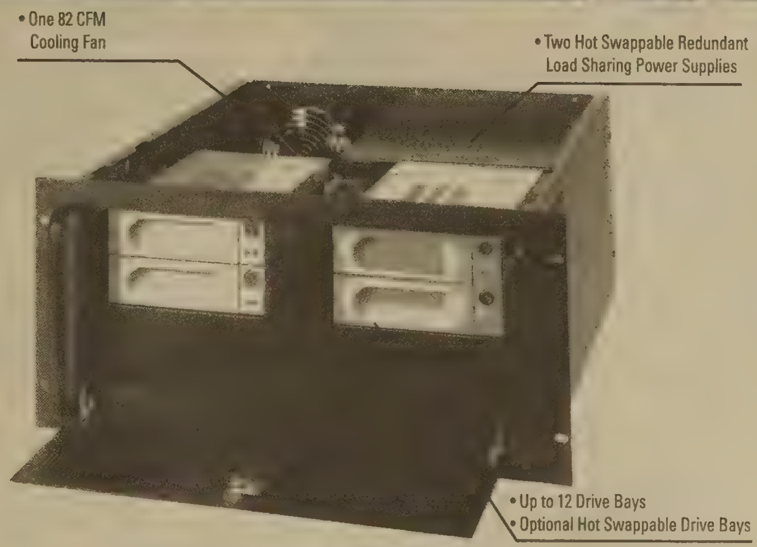
Enclosure with Hot Swappable PS & Drives



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• Two Hot Swappable Redundant Load Sharing Power Supplies
• Up to 12 Drive Bays
• Optional Hot Swappable Drive Bays

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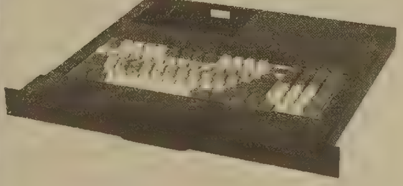

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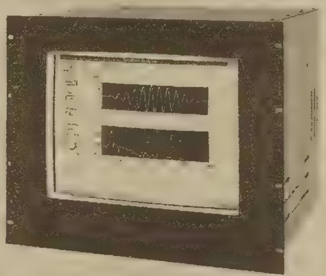

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Rack Mount Chassis	From	$ 220.00
Rack Mount 14" SVGA Monitor (NI)		$ 485.00
Rack Mount Cherry 101 Keyboard		$ 155.00
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Web Page Listings *continued...*

Freshly Baked Cooked Book *http://www.primenet.com/~freshly/* L.A.-based psychedelic blues/funk/jazz/reggae/bluegrass/punk band. This site contains artwork, lyrics, sound clips and recipes. [Exp. #146.]

Gigaplex *http://www.gigaplex.com/wow* A whopping arts & entertainment web magazine featuring film, TV, music, theater, books, and celebrity interviews. [Exp. #144.]

The Happy Happy Joy Joy Web Site *http://www.infinet.com/~ngsippel/hhjj.html* Classic Ren & Stimpy fans should check this out. Remember when R&S was good? We do. [Exp. #147.]

Hotel California *http://kincyb.com/* Check into the friendliest hotel in the West. Full of Internet games, 24 hrs. chat, and adult files. [Exp. #144.]

Hotnet Entertainment *http://starone.com/hotnet* Adult entertainment. Twenty-one and over are welcome. [Exp. #146.]

Idea Futures *http://if.arc.ab.ca/IF.html* Bet on 150+ science, computer; and social controversies. Won major prize for best Web site. [Exp. #145.]

International Channel *http://www.I-channel.com* Unique multicultural, interactive, multimedia experience combining video, audio, and animation. [Exp. #145.]

International Home Exchange Network *http://www.magicnet.net/homexchange* Listings of home exchange opportunities, local cost vacation rentals, Bed & Breakfasts, "mom and pop" hotels, and more. [Exp. #143.]

Irvine Harvest Festival 95 *http://www.deltanet.com/bazaar/harvest.htm* Festival activities, entertainment schedules, festival map, and discount coupon to the festival. [Exp. #146.]

K-Fone's Hot Interactive Voice BBS And Party Place *http://www.kfone. com/* Browse men and women throughout Southern California. Contact them free. Learn more about voice mail and more. [Exp. #146.]

Kaleidospace Independent Internet Artists *http://kspace.com/* Promotes, sells, and places work by independent artists, musicians, writers, performers, filmmakers, and software developers. [Exp. #146.]

The Kinte Space *http://users.aol.com/Wilhite213/kinte.html* A quasi-monthly publication of literary presentations downloadable as free multimedia PC applications. [Exp. #147.]

@LA *http://emporium.turnpike.net/A/atLA/* The most complete cyberspace guide to sites with a realspace presence in the LA area. [Exp. #144.]

LAcon III *http://sundry.hsc.use.edu/lacon3/* Web site for the World Science Fiction Convention coming to Anaheim in 1996. [Exp. #144.]

Lancaster Professional Baseball Club *http://www.av.qnet.com/~reggieb/baseball.html* Follow the California League's newest Class A baseball team. affiliated with the Seattle Mariners. [Exp. #146.]

Loser Love Songs *http://www.slip.net/~mbutler/index.html* Home of San Francisco power-pop band the Flex-a-Pleasers. Contains audio of every song in the catalog, more. [Exp. #143.]

Magnolia Jazz Band *http://www.MagnoliaJazz.com/* Over twenty years jazzing up special events throughout SF Bay Area. [Exp. #144.]

Match.Com *http://www.match.com/?mt* "We met on the Net!" Cyberflirting, email chemistry, and online romance. [Exp. #146.]

Merger *http://www.wp.com/Merger/home.html* L.A. area original Rock and Roll band. Info about the band and upcoming gigs. [Exp. #146.]

Mission Cliffs *http://www.mission-cliffs.com/mission-cliffs/* New indoor rock climbing center in San Francisco featuring impressive 50' high overhanging walls. [Exp. #145.]

Montreal World Film Festival *http://www.ffm-montreal.org* Site for the Montreal World Film Festival: bilingual descriptions, filmographies, schedules. [Exp. #146.]

Movies.net *http://www.movies.net/* The simplest movie address in cyberdom. Comprehensive, industry directory. Showtimes, promo's, reviews, previews, and more! [Exp. #146.]

Multiworld Magazine *http://www.jnw.com.mw/index.html* *Multiworld* is a multimedia, multilingual magazine published bimonthly via the Web. [Exp. #144.]

Mystic Sports Journal *http://www.sirius.com/~regent/MSJ* Spinmeister Jim Webster does sports like you've never seen it. [Exp. #144.]

NewType Gaming Magazine *http://www.newtype.com/NewType* Filled with information on graphic video games and virtual reality. Free stuff, latest news, and ravs in an eye-popping 3-D rendered environment. [Exp. #146.]

Nightflight Essential Guide To New York/Los Angeles At Night *http://www.echonyc.com/~voice* The Nightflight Guide features recommendations for the hippest nightclubs, eating, drinking, and gaming establishments in New York and Los Angeles. [Exp. #144.]

Obscure Research Labs *http://140.249.8.212/ORL/* Specializing in: UFOs, time travel, paraphysics, matrix technology, disinformation tracking, all the answers. [Exp. #143.]

One Live To Laugh *http://westworld.com/~nosnorba/* Independent film about a boy with dyslexia trying to make it in the stand-up comic world. [Exp. #147.]

Optical Illusions *http://www.lainet.com/~ausbourn* A collection of famous optical illusions presented in a gallery format. Informative and educational. [Exp. #145.]

Relayer *http://bbs.annex.com/relayer/gate/htm* Come and play with Relayer. Using Netscape 1.1 codes to provide audio, visual, and weirdness. [Exp. #145.]

Rock And Roll Digital Gallery *http://www.hooked.net/julianne/index.html* A digital gallery featuring poster art and images with rock 'n' roll as the theme. [Exp. #143.]

Rocktropolis *http://underground.net/Rocktropolis* Visitors can attend chat sessions with musicians, hang out backstage, hear new songs, send in photos, and much more. [Exp. #146.]

RockWeb Interactive *http://www.rockweb.com/* Interactive music service, band home sites, chat, WebZine, interviews, and concert calendars. [Exp. #146.]

Route 66 Los Angeles Webstation *http://www.losangeles.com* Find information about movies in theaters, on TV, and on video. This is a locally focused site supported by layers of global information. [Exp. #144.]

Science Fiction Now *http://www.science-fiction.com/* Buy, sell, and rate the science fiction stories from around the country and the globe. [Exp. #146.]

Sega Web *http://www.segaoa.com* Product information and graphics from the interactive king. Contests for prizes. [Exp. #144.]

Serenity *http://www.tecnation.com/serenity/* [Exp. #144.]

SFbuzz *http://www.soos.com/sfbuzz/* San Francisco theater and movie reviews, with the latest gossip and links to San Francisco. [Exp. #147.]

Solomon Speaks *http://pages.prodigy.com/CA/momonk/Solomon.html* Free WWW service kind of like "Dear Abby" or "Ann Landers." [Exp. #145.]

Split *http://www.splitnews.com/travel/* Wet your wonderlust with Split's saucy new blend of international travel news, views, and reviews. [Exp. #147.]

Sports World Internet *http://www.sportsworld.com/sports/home.html* Live Sports Chat, $1000 contest, fantasy football league, user articles. Sports experts and novices welcome. [Exp. #144.]

Susan Sutton Trio Home Page *http://ocf.berkeley.edu/~daaron/trio.html* The home page of the Susan Sutton Trio, a progressive and upbeat Latin-inspired jazz band in the North Bay. [Exp. #145.]

Topanga Canyon Rotisserie League *http://bcf.usc.edu/~kbrennan/index.html* Follow the fantasy baseball league here, complete stats, transactions, plus hotlinks to numerous baseball sites. [Exp. #145.]

Tripod *http://www.tripod.com/* Ready for the real world? Tripod provides tools for life—travel, money, health, living, work, and community. [Exp. #147.]

UNCAT: The Catalog Of UNCATaloged Titles *http://www.sapphire.com/UNCAT/* Brochures, books, catalogs, newsletters, videocassettes, and audio cassettes not generally available in a bookstore or library. [Exp. #143.]

The Unofficial Heckler And Koch USP Home Page *http://www.priment.com/~tlau/usp/usp.html* Info on the H&K USP pistol and general information of interest to all shooters. [Exp. #146.]

Venice Beach, California *http://www.mediaonline.com/bizads/venicebeach.html* Celebrate Venice's 90th anniversary in this art community including fitness events in world-famous Muscle Beach. [Exp. #144.]

Wave Action Surf Magazine *http://www.waveaction.com/mag* Surfing from around the globe featuring photos of some of the world's best new school surfers captured by industry photographers. [Exp. #144.]

Welcome To WOL On The Web *http://www.cris.com/WOL* The home of *Windows OnLine* and the *WinOnLine Review* (online magazines) commercial and shareware reviews. [Exp. #146.]

World Conquest *http://dnai.com/~conquest* Popular two- to twelve-player wargame (WWII) w/GUI (shareware), hourly turn processing. [Exp. #146.]

XCENTRIX *http://www.servtech.com/public/sproing* An eclectic zine integrating a plethora of genres including art, music, fashion, gossip, drag queens, and more. [Exp. #146.]

XROADS *http://xroads.wr.usgs.gov/Welcome.html* Links to US Geological Survey Web sites. A way to learn about earth science and the USGS. [Exp. #143.]

The ZenMOO Home Page *http://www.zennet.com/html/zenmoo.html* Amid the sounds of chanting and gongs, you have come upon the glorious ZenMoo. [Exp. #146.]

ORGANIZATIONS

American Film Institute *http://ww.afionline.org/* AFI's Web site provides users with information about the institute's programs and activities, including the AFI Conservatory. [Exp. #147.]

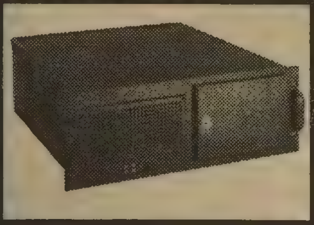
American Sightseeing International *http://www.sightseeing.com/* ASI, a global association of tour companies, offers worldwide tourism information. Email: *info@sightseeing.com*. [Exp. #145.]

ASSE—Greater San Jose Chapter *http://www.best.com/~assegsjc* Information, links on environmental, safety, and health issues and the American Society of Safety Engineers. [Exp. #145.]

Bay Area Volunteer Information Center *http://www.meer.net/users/taylor/* Lists hundreds of volunteer opportunities with San Francisco Bay Area non-profit organizations. [Exp. #145.]

Berkeley-East Bay Humane Society *http://www.ccnet.com/~bebhs* Photo tour and information about our animal shelter and veterinary hospital. (Netscape 1.1 rec-

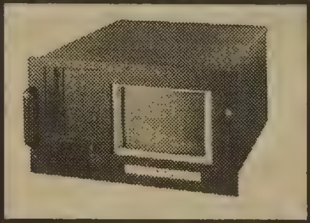
19" RACKMOUNT ENCLOSURE



OPTIONS:
- 7-20 Slots Available
- Custom Modification
- Hot Swappable Redundant Power Supplies

Call For Details

19" RACKMOUNT W/MONITOR



- 19" Rackmounting
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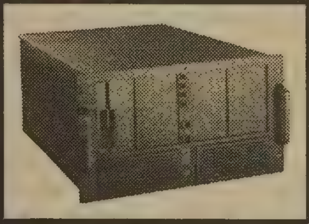
- 10" .28 dot pitch SVGA Color
- 9" Mono-TTL or VGA
- 8 or 14 Slot Passive Backplane
- 8 Slot Motherboard Mounting
- U.S.A. Manufactured

MADE IN U.S.A.

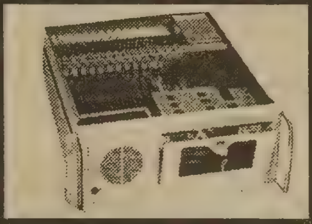
19" RACKMOUNT ENCLOSURE



- 8, 14 & 20 Slot Options
- Dual Power Supplies
- Power Supply Redundancy Option
- 8 Drive Bays
- 8 Fans
- Motherboard or Passive Backplane
- 200-1000 Watt Power Supply
- USA Manufactured

Call us with your specifications

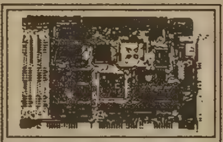
19" RACKMOUNT STEEL INDUSTRIAL CHASSIS



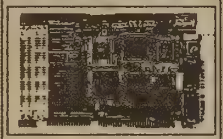
- Supports 2x5.25" & 3x3.5" 1/2 Ht. HDD's
- Vibration Damper
- 250W Power Supply
- Safety Approved For TUV/FCC/UL/CSA EMI Req: FTZ & FCC
- Cooling Fan

HALF-SIZE CPU CARDS

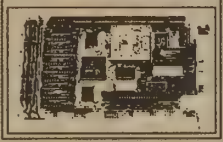
PC/AT 386SX/486SLC
1/2 Size All-In-One SBC
CPU
Cx486SLC-33 MHz or 80386SX-40 MHz
Memory
512KB-16MB DRAM
•Supports EPROM/FLASH disk, Up to 1.44 MB



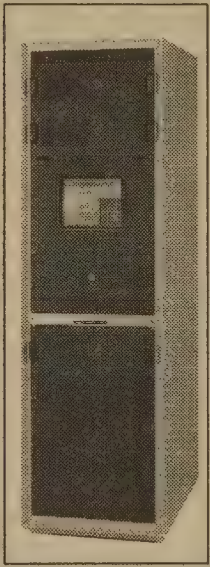
PC/AT386DX
1/2 Size All-In One SBC
CPU
AMD 80386DX-40 On Board
Cache
128K Cache On Board
Memory
1-64MB DRAM
•8 Layers With Double Sided SMT PCB



PC/AT 486DX
1/2 Size All-In-One SBC
CPU
Cyrix Cx486 or 80486SX/DX/DX2, Clock Rate from 25MHz to 66MHz
Cache
Up to 256KB
Memory
1-64MB DRAM

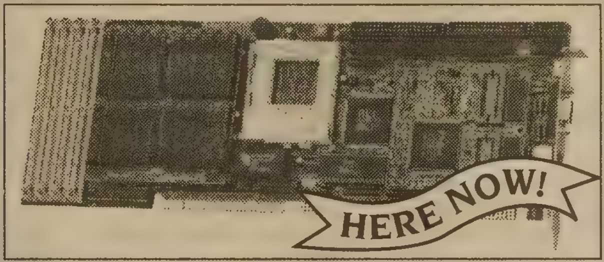


CENTRALIZED LAN SYSTEM



Features:
- FILE SERVER
- MULTI-COMMUNICATION SYSTEM
- MULTI-FUNCTIONAL SYSTEM
- 24 DIFFERENT SYSTEMS CAPABILITY RUNNING AT SAME TIME
- CAPABLE OF CUSTOMIZED SPECIFICATIONS

Upgradable to 133MHz Pentium® Processor Card



- Supports Intel's Pentium® 75/90/100/120/133 MHz Processor
- Configurable w/256KB to 2MB of Write Back Memory
- Four 72-pin SIMM 1 MB to 128MB Memory
- AMI Flash BIOS
- Shadow RAM capability
- 2 High Speed Serial Ports
- BIOS Provides LBA (Logical Back Addressing) to support Hi-Capacity Hard Drives
- PCI IDE interface for Hard Disk w/2 Ser/1 Par Ports
- On Board PS/2 keyboard & mouse connector
- Keyboard Lock & Reset Switch interface
- SVGA Video On Board w/ Upgradable to 2MB

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EISA/ISA CPU CARD ALSO AVAILABLE

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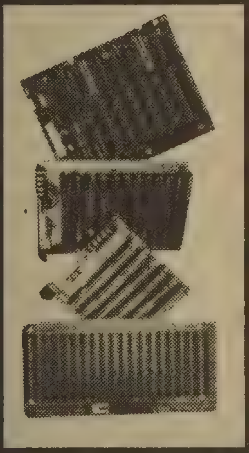
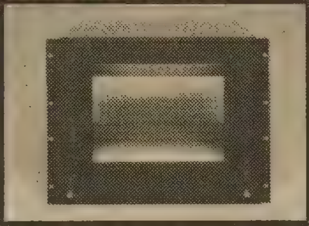


6 SLOT	$53
8 SLOT 6 AT & 2 XT	$35
8 SLOT	$59
12 SLOT	$90
14 SLOT	$94
18 SLOT	$180
20 SLOT	$194

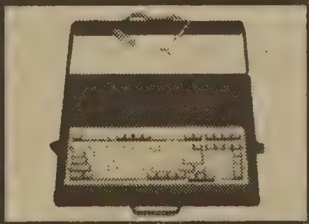
EISA PASSIVE BACKPLANE BOARD AVAILABLE

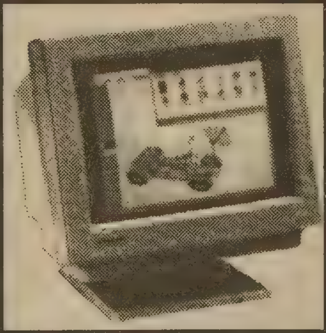
SPECIAL OPTION
- 14 SLOT SEGMENTED 6,4,4
- 18 SLOT SEGMENTED 5,4,4,5
- 20 SLOT SEGMENTED 5,5,5,5

19" RACKMOUNT MONITOR KIT

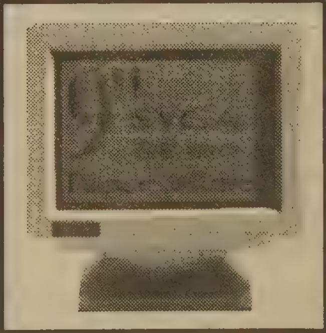


19" RACKMOUNT KEYBOARD





14" SVGA COLOR MONITOR
- CRT 14" DIAGONAL NON-GLARE FLAT
- DOT: .28mm
- RES. 1024 X 768 NON-INTERLACE, 800 X 600, 720 X 400, 640 X 480, 640 X 350
- POWER SUPPLY: 120-240V AUTO SELECTION



9" SVGA MONITOR MONO PAPER WHITE
- CRT: 9" x 90 DEFLECTION NON-GLARE PAPER WHITE
- RES: 1024x768, 720x400, 640x480
- POWER SUPPLY: 100-240V

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Web Page Listings *continued...*

ommended.) [Exp. #146.]

California Association Of Residential Care Homes *http://www.hooked.net/users/rallap/index.html* Nonprofit association of care providers, current list of vacancies in Santa Clara County, referrals. [Exp. #143.]

CERA Research *http://www.cera.com* Web site for embedded systems engineers and programmers, includes Electronic Engineer's Internet, 1995 report on engineers and programmers on the net. [Exp. #145.]

Creative Learning Stroke Support Site On The Web *http://www.tpoint.net/creative/* Creative Learning publishes multimedia software to help rehabilitate language after a stroke or other neurological impairment. [Exp. #145.]

Cupid's Network, Inc. *http://www.cupidnet.com/cupid* Network of singles organizations, dating services, matchmakers, and personal ads. Many ads from women. [Exp. #145.]

De Anza College *http://www.deanza.fhda.edu/* De Anza College programs, services, community events, class schedules, and much more to explore! [Exp. #145.]

Greenbelt Alliance *http://www.greenbelt.org/gba* Everything about the Bay Area's greenbelt of open space: maps, outings, issues, factsheets. Fight urban sprawl! [Exp. #143.]

History Computerization Project *http://www.history.la.ca.us/history* This Project includes: request forms for a free History Database tutorial, photos on display, and directories of historical resources. [Exp. #144.]

International Food Information Council *http://ificinfo.health.org* or *gopher://ificinfo.health.org* The International Food Information Council (IFIC) Foundation offers up-to-date facts on food safety and nutrition. [Exp. #144.]

National Air And Space Museum *http://www.nasm.edu* . Research resources, learning materials, info; event calendar; museum tour; Center for Earth and Planetary Studies; more. [Exp. #145.]

Navy Engineering Field Division Environmental Department *http://ivory.nosc.mil/~saundel/default.html* Environmental Dept. Web Page provides information about Navy and Marine Corps installations whose environmental cleanup programs are managed by Southwest Division. [Exp. #145.]

OCSUG Home Page *http://halide.acs.uci.edu/* Home page of the Orange County Sun User Group. [Exp. #143.]

Pacific Lutheran University *http://www.cs.plu.edu/tour/tour.html* A virtual tour of Pacific Lutheran University's campus is as close as your computer screen. [Exp. #145.]

Podiatric Medicine And Surgery Network *http://www.aimnet.com/~rwunder/podmet.htm* Information for studying and practicing podiatrists, geared toward The California College of Podiatric Medicine. [Exp. #145.]

Spectrum Virtual University *http://www.pacificnet.net/~spectrum/campus* Progressive "virtual university" offers free classes via the Internet on subjects from mainstream to alternative. [Exp. #145.]

U.S. Navy Recruiting Command *http://www.navyjobs.com* Browse through selected topics, including Jobs in the Fleet, Medical Jobs, Worldwide Travel, and Benefits. [Exp. #145.]

West Coast Online *http://www.wco.com/* West Coast Online's home page. [Exp. #145.]

PERSONAL HOME PAGES

April's Cell Tech Page *http://www.calypso.com/april* A great location to visit to learn more about Health and Wealth Opportunities with Super Blue Green Algae. [Exp. #146.]

AYL Home Page *http://www.aimnet.com/~ayl/homey.htm* A home page full of exciting links to unique places and great invest opportunities. [Exp. #145.]

Bob Bickford *http://www.well.com/Community/rab/index.html* The still-evolving home page of a Professional Wild-Eyed Visionary. [Exp. #145.]

Bob Koster's Home Page *http://www.leonardo.net/rkoster/* My URL is history, classic cars, classic music, cave paintings, and cinema and its history. [Exp. #146.]

Cindy's Home Page *http://www.pacificnet.net/~roncin* [Exp. #145.]

Doug Michael Home Page *http://www.ccnet.com/~dmic27* This site deals with original music by composer Doug Michael and includes sound samples, release info, and cool music links. [Exp. #146.]

Douglas's Home Page *http://www.primenet.com/~douglask/* If you are interested in probation or X-Ray technology leave a note here. Links to many legal sources. [Exp. #145.]

Ed's Web Place *http://www.netgate.net/~embier* Find interesting links to my favorite topics: scuba, movies, sports, send me email. [Exp. #147.]

Garden Songs *http://www.geopages.com/Paris/1416/soos.html* Poetry by SOOS (Strong Opinions On Success). [Exp. #146.]

Greg's Point Reyes Wild Life Home Page *http://users.aimnet.com/~winter/ptreyes.htm* Wild life that can be seen at or near the Point Reyes National Seashore in Northern California. [Exp. #146.]

Healthy Flying *http://galaxy.einet.net:80/galaxy/Leisure-and-Recreation/Travel/diana-fairechild/healthy.html* Info about jet lag, healthy flying, and other air travel-related issues. [Exp. #145.]

Home Page Of Robert Capps *http://www.ccnet.com/~rc* An ever-changing collection of cool links and information on setting up your own home page. [Exp. #145.]

Hypnotherapy By Rosa Kitchen *http://www.he.tdl.com/~kitchen* Calm, calmer, calmest. Develop a solid, unshakable personal power. Heal from within through hypnosis. [Exp. #143.]

I'll Have Some Fries With Those Beastie Boys *http://www.hooked.net/users/clayton* Save Mumia Abu-Jamal, Beastie Boys, Aeon Flux, Burrito, Pulp Fiction, personal bio. [Exp. #146.]

Kerry Garrison's Home Page *http://www.delta.net/users/garrison* Links to Perl programming and Web development information, cool sites, daily newspaper. [Exp. #147.]

Larry Robinson's Genealogy Forms *http://www.wp.com/FOLDEE/* Source for unique genealogy supplies and home of the FOLDEE, a paper recycling center. [Exp. #146.]

Lynda Williams Home Page *http://www.physics.sfsu.edu/grad/lwilliam/lwilliam.html* Physics graduate student by day, cabaret performer by night, Lynda Williams calls herself a "Science Entertainer." [Exp. #145.]

Magic Arcs' Web Page From Hell *http://users.aol.com/magicarc/private/index.html* Cool site with lots of links, games, and software reviews. Netscape Enhanced. [Exp. #147.]

Mark Holt's Home Page *http://www.sun.com/sunsoft/cdware/mark.html* Sun Microsystems and Solaris links, interview with Yahoo creators, and other cool links. Updated weekly! [Exp. #145.]

Marko's Main Menu *http://www.inow.com/~marko/marko.html* Come and see, hey, it's free. [Exp. #146.]

Mike Russ's HomePage *http://www.primenet.com/~laurus* Tons of cool stuff with the Web's most complete list of why some people should die. [Exp. #145.]

Mishworld *http://www.earthlink.net/~mish* Harmful nonsense, links to strange things, poetry, and other fun but useless information. [Exp. #146.]

Myers Information Services *http://www.weight.com* Information on weight control and eating disorders written for the layman by a physician that treats both. [Exp. #146.]

Nabeel Ibrahim's Home Page *http://www-leland.stanford.edu/~ibrahim* Take the EE Purity Test! [Exp. #146.]

Ramsey Ksar Home Page *http://pandora.library.ucsb.edu/~ramsey* An innovative personal home page with great links, my resume center, and a short bio. [Exp. #146.]

Robert Altman's Classic Rock Photography And What Not Shop *http://www.cea.edu/robert/* Altman's shooting life: Janis Joplin, the Stones, Jim Morrison; portraits/stories of Joe Montana, Groucho Marx. [Exp. #145.]

Rogelio's Home Page *http://pages.prodigy.com/CA.talldude/* This page has BBS numbers for the Los Angeles Area 213, 310, and 818 area codes. Also contains links to useful files and X-files Web pages. [Exp. #147.]

RVL Sci-Fi HomePage *http://www.csun.edu/~hbcsc093/rvl.html* Links to many science fiction sites, 3-D computer graphics and raytracing, and some other cool stuff. [Exp. #145.]

Steve's Hot Stuff! *http://www.sonic.net/~stephen/* Places to explore, useful links for finding helper apps, freeware, and shareware. User group info. [Exp. #144.]

Trav's Home Page *http://www.isc.sjsu.edu/b/r/twise/index.html* Lists of hot lists, links to amateur radio resources, and other fun stuff. [Exp. #146.]

Will Ussery Home Page *http://www.slip.net/~wussery/* Designer of Ecco Pro templates. Ecco Pro is a leading Windows-based PIM. [Exp. #147.]

XOS *http://www.webinc.com/xos/* The one and only adult entertainment magazine published on CD-ROM monthly. [Exp. #146.]

POLITICAL/SOCIAL

100 CC *http://www.jodi.org/100cc/* Binhex, Commando Solo, live Cybersupremacist, General Surgeon news, CC Baklava Top 100, Betalab 2.0 [Exp. #147.]

6th International Conference On Computers In Agriculture *http://www.agen.ufl.edu/~fzazueta/* Conference, in Cancun, Mexico, June 11–14, 1996, will provide a forum for agriculture-related professionals to exchange information on applications and developments in the use of computers in agriculture. [Exp. #146.]

African Connections *http://www.melanet.com/melanet/connections* The Web site contains information on the *African Connection* TV series, a listing of available programming, forms for online feedback, news, and links to related organizations. [Exp. #145.]

Alternative Family Project *http://www.sfsu.edu/~counsel/* Provides affordable family therapy to San Francisco Bay Area families with gay, lesbian, bisexual, or transgendered members. [Exp. #147.]

American Association Of University Presses *http://aaup.pupress.princeton.edu:70/* Offers online catalogue of over forty-nine thousand scholarly books in print at university presses. [Exp. #146.]

Association For The Electrically And VDT Injured *http://www.isy.liu.se/~tegen/febost.html* Information for persons who suffer from environmental illness related to exposure to electromagnetic fields. [Exp. #146.]

Bacard's Privacy Page *http://www.well.com/user/abacard* Author Andre Bacard provides practical documents and links to protect your computer privacy. [Exp. #145.]

Bad Information Base *http://www.well.com/user/jmalloy/* Information catalogued, and organized in a

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3-Button Mouse

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- Fits in Left or Right Hand
- Serial Interface
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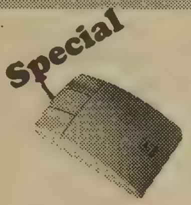
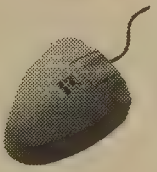


MouseMan

- 400dpi resolution
- Shaped to fit the hand
- Serial interface
- Includes Software
- Mac Version Available
- Factory Refurbished

reg. $69 $24.99



MouseMan Sensa

- Select From 4 Different Colors & Textures
- 400dpi Resolution
- Serial Interface
- Factory Refurbished

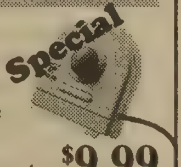
reg. $75 $24.99

TRACKBALLS

TrackMan Portable

- Ideal for Portables
- Clamps to side of keyboard
- Thumb operated 3-button design
- Serial interface or PS2 adaptable
- Includes Software
- Factory Refurbished

Starting at $9.99



TrackMan Voyager

- Hot new portable trackball
- Versatile Laptop Notebook mounting
- PS2 Interface
- Factory Refurbished

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ScanMan 256

- 256 Gray Scale
- 100-400dpi
- Includes Windows Software
- Factory Refurbished

reg. $199 $49.99

ScanMan Easy Touch

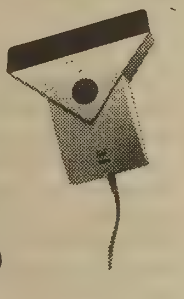
- Parallel interface, no board required
- 256 Gray Scale
- 100-400dpi
- Great for portables
- Includes Windows Software
- Factory Refurbished

reg. $249 $59.99

ScanMan Color

- For Windows
- 24-bit 16.8M Colors
- 100-400dpi
- Perfect for all your scanning needs
- Includes Windows Software
- Factory Refurbished

reg. $379 $149.99



ScanMan PowerPage

The complete integrated scanning, faxing, and copying solution.

- Works with desktop and portable systems
- One button scanning, faxing, and copying
- Easy to install–plugs into parallel port
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- Includes FotoTouch Color image editing, OmniPage OCR Software
- Return or Factory Blemish

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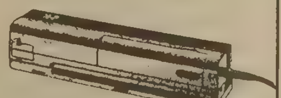

SOUND PRODUCTS

AudioMan

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- Add Spoken message or music
- Easy to install through parallel port
- Portable, battery operated
- Includes software
- For Windows PC's and Notebooks

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SoundMan Wave

- Wave Table synthesis
- 16-Bit CD-quality recording & playback
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- Includes Software
- Factory Refurbished

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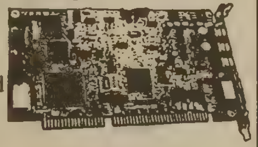

Sound Man 16 *Special* $29.99

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Wing Man Joystick

- Hot New Model
- 2-Button, with throttle control
- Fly it meaner, harder and faster!
- Factory Refurbished

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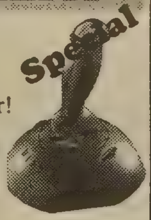

Wing Man Extreme Joystick

- 4 way view switch
- 4 Buttons for high performance flying
- The ultimate joystick
- Factory Refurbished

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Cyberman is a revolutionary input device for hard core gamers. It allows you to move freely in 3 dimensions.

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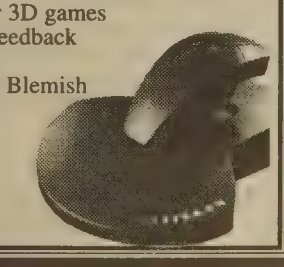

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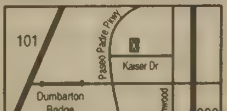

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Web Page Listings *continued...*

definitive database that contains words of wisdom about subjects such as religion, technology, body odor, computers, and toilet paper. [Exp. #146.]

The Bionomics Institute *http://www.bionomics.org/* Changing the paradigm from economy-as-machine to economy-as-ecosystem. [Exp. #147.]

Burlingame On-Line *http://www.spectrumnet.com/burlingame.html* Burlingame On-Line provides news, information, and shopping for the city of Burlingame and surrounding communities. [Exp. #146.]

Burlingame On-Line PEZ Page *http://www.spectrumnet.com/pez/* Largest display of PEZ dispensers on the West Coast, includes history, facts, and PEZ store. [Exp. #146.]

California Libertarian Party *http://www.lp.org/lp/ca/lpc.html* Alternative politics for the golden state. [Exp. #145.]

Capnet Gateway On-Line Service *http://turnpike.net/emporium/C/CAPNET/health.htm* An Internet resource center for information regarding healthcare and humanity. [Exp. #146.]

Catholic Charities Web Pages *http://ccsj.org/* Enhancing the quality of life for all members of the community, especially the poor. [Exp. #146.]

Central News Service *http://users.aol.com/cns1111/2.html* News from the underground, analysis of news to distinguish self-interest of institutions from actual current events. Non-profit community orientation. [Exp. #147.]

Chabot Observatory And Science Center *http://ousd.k12.ca.us/COSC/Chabot.html* Located at 4917 Mountain Blvd. in Oakland near Hwy. 580/13 interchange. [Exp. #146.]

Charlotte's Web—Government Reform Resources *http://www.emf.net/~cr* Links to government and citizen activist groups; ftp-able grassroots essays, articles; National Debt updates. [Exp. #145.]

Child Safety Forum *http://www.xmission.com/~gastown/safe* Provides safety information that may save your child's life or prevent a serious injury. Each month features child safety tips for a different room of the house. [Exp. #146.]

Children's Animated Television *http://www1.usa1.com/~furball/* A progressive nonprofit organization that produces educational videos for children and teens about today's social issues. [Exp. #147.]

Chile Guide *http://sunsite.dcc.uchile.cl/~mvasquez/chile/index.html* Chile Guide is a page where you can find all about Chile. [Exp. #146.]

Church Of Scientology Of Los Angeles *http://www.theta.com/csla/* History of the Los Angeles Church, celebrity comments, photos, What is Scientology?, community, and more. [Exp. #147.]

Cichlid Research Home Page *http://garnet.berkeley.edu:2727/* Information on the fish family *Chichlidae*, for both hobbyists and scientists. [Exp. #146.]

City Of San Carlos *http://www.abag.ca.gov/san_carlos/index.html* "Meet the Candidates" feature provides an easy way to read the statements of the five candidates running for the two vacant City Council positions in the City's General Election to be held November 7, 1995. [Exp. #146.]

Classic/Vintage Thunderbirds *http://www.hooked.net/users/gwotel/index.html* Classic (1955–1957) and Vintage (1958–1966) Ford Thunderbird Web site. [Exp. #147.]

The Computer History Association Of California *http://www.chac.org/chac/* An introduction to the CHAC, includes ftp of all issues in plain text, links to other computer history pages, and more. [Exp. #146.]

Cuba WWW *http://www.unipr.it/~davide/cuba/home.html* Country information, maps, WWW sites, Gopher sites, mail, news, tourism, and more. [Exp. #146.]

CyberKorea *http://165.113.175.2* Intro to CyberKorea, Korean Web directories for news, Internet providers, and other sites. Short Korean lessons (coming soon). [Exp. #146.]

Democratic National Committee *http://www.earthlink.net:80/~cid/ccri/* Find out about the state's Democratic committee based in Los Angeles. This site also lists events and provides links to local Democratic Party organizations around the country. [Exp. #145.]

Democratic Party of the San Fernando Valley *http://val.net/dpsfv/* The Democratic Party of the San Fernando Valley goes electronic. Events, issues, info, and more. [Exp. #146.]

DharmaNet Electronic Files Archive *http://sunsite.unc.edu/dharma.defa.html* Online clearinghouse and library for Buddhist resources, online and off. [Exp. #147.]

Digital Freedom Network *http://www.iia.org/dfn/* Circumventing censorship of published material by posting the works on the Internet. [Exp. #143.]

Earthquake Information From USGS, Menlo Park *http://quake.wr.usgs.gov/* Current quake data, regional studies, info on prediction experiments, projected shaking, and damage maps. [Exp. #147.]

The Economist *http://www.earthlink.net/~the-economist* Read issues of local interest compiled by the Los Angeles bureau of *The Economist* magazine. [Exp. #146.]

First Internet McChurch Tabernacle *http://mcchurch.org/mcdonna* At the hub, the core, the virtual beating heart of the WWW. [Exp. #145.]

Garden Of Remembrance *http://www.islandnet.com/~deathnet/garden.html* A way for a family member or friend to be immortalized in cyberspace with a multimedia obituary. [Exp. #145.]

Global Futures Foundation *http://www.quiknet.com/globalff/globalfu.html* Environmental Web site for businesses, with publications and Future 500 CEO resource efficiency roundtable. [Exp. #145.]

Global Ideas Bank *http://newciv.org/worldtrans/BOV/BOVTOP.HTML* International suggestion box for ideas or projects for improving the quality of life. Annual award. [Exp. #145.]

Golden Retrievers In Cyberspace *http://www.rahul.net/hredlus/golden.html* Information on Golden Retrievers: how to find breeders, rescue groups, GRCA, and more. [Exp. #144.]

Henry Ford Museum Online *http://hfm.umd.umich.edu* Provides users with historical content and programs. Highlights include "The Automobile in American Life," "Made in America," and Presidential limo exhibits. [Exp. #146.]

Institute For Global Communications Progressive Directory *http://www.igc.apc.org* [Exp. #145.]

Institute Of Heartmath *http://www.webcom.com/~hrtmath/IHM/AboutHM.html* Research-based training for developing enhanced intuitive intelligence to successfully manage mental and emotional choices. [Exp. #144.]

Ischemia Research And Education Foundation *http://grimm.ucsf.edu/* The IREF and McSPI Web site describes the cutting-edge heart research done by this worldwide network of prestigious study centers. [Exp. #146.]

Islamic Server of MSA-USC *http://www.usc.edu/dept/MSA/* Contains information on Islam, including several large reference works. [Exp. #146.]

Jerry Garcia Tribute Site *http://www.rockweb.com/rwi/jerry-tribute* Sign condolence card project, video, sound, pix, chat. Collaboration between RockWeb, David Grisman, Stanley Mouse, and Steve Brown. [Exp. #146.]

Libertarian Party Of America *http://www.lp.org/lp/* America's Third Party. [Exp. #145.]

Los Angeles County Museum of Art *http://www.lacma.org* Largest museum west of the Mississippi is online. Come and see the art. [Exp. #146.]

Mansoor Amarna Collection *http://www.amarna. com/* A collection of Egyptian Amarna era art, pieces of which may be found in the Louvre, the Vatican, and other museums. [Exp. #146.]

MetaSelf *http://www.metaself.org/model* Understanding the whole self through a model based on common spatial metaphors. High school lesson plans. [Exp. #146.]

NAAFA Online *http://world.std.com/~naafa* National Association to Advance Fat-Acceptance. Promoting wellness and combatting prejudice against fat people. [Exp. #146.]

NASA Office of Space Science *http://www.hq.nasa.gov/office/oss* The NASA Headquarters Office of Space Sciences provides information and links to Space Science sites. [Exp. #146.]

New Civilization Network *http://newciv.org/worldtrans/newcivnet.html* "To make the world a better place." Free space for many nonprofits. [Exp. #145.]

The Noble Internet Directories *http://www.experts.com/* Details about a UCSF Opthalmology Dept. research project testing a new diffractive optic to treat many new vision imperfections. [Exp. #146.]

The Objectivism Resource Guide *http://www.hypermall.com/oms/org/* Learn more about Ayn Rand—author of *The Fountainhead* and *Atlas Shrugged*. [Exp. #146.]

Oceania, The Atlantis Project *http://oceania.org* Want to talk about forming a new country? Come visit us. [Exp. #145.]

Old Town Pasadena *http://www.earthlink.net/~jescala/oldtown.htm* A comprehensive guide to the night life of Old Town Pasadena, with reviews of bars, pool hall, and clubs. [Exp. #146.]

OrchidMania *http://www.orchids.org* Orchid maniacs raise money for grassroots AIDS programs worldwide with the "World's Largest Orchid Garage Sale." Plenty of orchid growing information. [Exp. #146.]

OSU Government Information Sharing Project *http://govinfo.kerr.orst.edu/* Funded by the U.S. Dept. of Education, this site provides access to detailed population and agricultural statistics for Northwest states. [Exp. #146.]

ParentsPlace.Com *http://www.parentsplace.com/* The parenting resource center on the Web: reading rooms, chat, shopping mall with parenting and child-care products. [Exp. #146.]

People Who Care *http://www.people-who-care/people* HIV programs, community organizations, job training, homeless care, counseling, cultural activities at St. Paulus. [Exp. #146.]

PETA *http://envirolink.org/arrs/peta/index.html* PETA, People for the Ethical Treatment of Animals, online includes factsheets, updates, membership info, a list of cruelty-free companies, and other resources. [Exp. #146.]

PGPfone Home Page *http://web.mit.edu/network/pgpfone/* A software package that turns your desktop or computer notebook into a secure phone. The Beta Test is available for the Macintosh with Windows 95 version in the works. [Exp. #146.]

Phil Gramm For President Campaign *http://www.gramm96.org* Speeches and articles from the campaign trail intermixed with graphics, audio and video clips, and more. [Exp. #143.]

Portola Views *http://www.primenet.com/~martonj* Portola Hills Community Bulletin Board, providing event, activities, and neighborhood interface with a virtual Town Hall. [Exp. #146.]

Qui Tam Information Center *http://www.quitam.com* A place for whistleblowers

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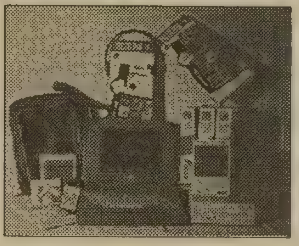

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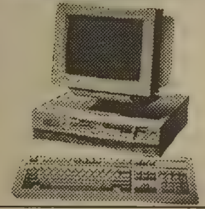

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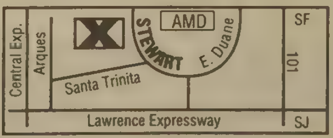

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and attorneys to gain information in pursuing qui tam actions. [Exp. #145.]

Rainbow Flag Health Services *http://www/leland.stanford.edu/~blandon/rainbow.html* A new Known Donor Sperm Bank serving the Gay and Lesbian community of the San Francisco Bay Area. [Exp. #146.]

Rebecca Pack & Associates *http://www.value.net/execsol/~execsol.html* Pictures and information of missing children. Offers hot spot advice for small and large businesses. [Exp. #147.]

Remembering Nagasaki *http://www.exploratoruim.edu/nagasaki* A WWW page and Internet Exhibit at the Exploratorium as part of the world's observance of the 50th anniversary of the bombings of Hiroshima and Nagasaki. [Exp. #145.]

Republican National Committee *http://www.rnc.org/* Depicting a block from a typical American town, there are thousands of things for a visitor to do on the RNC home page. [Exp. #147.]

Saigon Net Home Page *http://www.saigonet.com/* N. California Vietnamese Community activities, two news magazines, business directory, pagodas, and information on Vietnam. [Exp. #146.]

Salvador Dali Museum *http://www.highway.com/dali/* Features lots of cool Dali images, including flies and melting clocks, and explains how the museum got to be located in St. Petersburg. [Exp. #146.]

Santa Barbara International Introduction Center *http://www.rain.org/~sbintl/* A Web site serving a group of Eastern European women, primarily from Minsk, Belarus, but also from Tashkent and Uzbekistan. [Exp. #146.]

Santa Monica Web *http://www.smweb.com* City of Santa Monica in cyberspace. A city guide featuring visitor information, business directory, news. [Exp. #145.]

SF Jewish Bulletin *http://www.jewish.com/jb* The first Jewish weekly newspaper available in its entirety on the Web, includes articles, columns, calendar listings, classified ads, and more. [Exp. #146.]

Simon Wiesenthal Center *http://www.wiesenthal.com/*[Exp. #146.]

Society For Technical Communication, San Francisco Chapter *http://stc.org/* International nonprofit organization for technical writers and editors: meetings, newsletter, job leads, competition, annual conferences. [Exp. #147.]

Some Bay Area Progressive Stuff *http://www.emf.net/~cheetham/index.html* An events calendar and organizational directory of the Bay Area progressive community. [Exp. #146.]

Southern California Gay Wired *http://www.gaywired.com/~unity/index.html* The new, interactive source for today's gay and lesbian community in Southern California. [Exp. #145.]

Stardust: To Catch A Comet *http://pdc.jpl.nasa.gov/stardust/home.html* Stardust is a NASA space exploration mission for the 21st century. Launch of the probe is slated for Feb. 1999, with the encounter of comet Wild 2 set for Dec. 2003 [Exp. #147.]

Steppinstone Entertainment *http://www.primenet.com/~kantoku/* Web page creating services, independent film company information, and more. [Exp. #147.]

This Is True *http://www.infoark.com/freecom/* Home of the popular "This Is True" newspaper column, which is also available by listserv. [Exp. #146.]

U.S. Holocaust Memorial Museum *http://www.ushmm.org* Now provides access to the complete catalog of the U.S. Holocaust Memorial Museum Research Institute document archives. [Exp. #146.]

University Of Phoenix Online *http://www.uophx.edu/online/* Accredited university offering online business degree graduate and undergraduate programs for working adults. [Exp. #146.]

US Geological Survey *http://www.usgs.gov/* Home page for USGS, with access to geologic, hydrologic, and mapping info. [Exp. #147.]

USS Liberty Home Page *http://www.halcyon.com/jim/ussliberty/* Information and files about the American ship that was attacked by the Israelis during the Six Day War. [Exp. #143.]

Webcorp Political Satirical Content *http://www.webcorp.com/* Pages include The Richard Nixon Audio Archive, Political Babble Generator, New Orleans Cemetery Images, Wheel O'Congress, and others. [Exp. #147.]

Women's Wire *http://women.com Women's Wire* is an interactive magazine focused on women's interests. Free to visitors. [Exp. #146.]

Yoga Fitness *http://www.iyoga.com/yf/* Yoga Fitness is the premier Iyengar yoga studio in the South Bay. [Exp. #146.]

WEB/INTERNET SERVICES

Bay Area Internet Solutions *http://www.bayarea.net* Full service ISP, specializing in connecting businesses to the Internet. Web design and hosting. (408)447-8690. [Exp. #144.]

BayScenes *http://www.bayscenes.com/* An affordable Web page provider for Northern California for individuals and small businesses. Customers include local bands, artists, craftspersons, sports centers, and non profits. [Exp. #147.]

Bonsai Software *http://www.bonsai.com/* Bonsai Software, Inc.—software consultants, WWW setup, and WWW hosting services. [Exp. #145.]

CCnet Inc. *http://www.ccnet.com* Prices and services for CCnet, an ISP for the Bay Area and Silicon Valley. Excellent resource for home buyers in Contra Costa County. [Exp. #145.]

Computer Events Directory *http://www.kweb.com/* A leading source for information technology events worldwide. [Exp. #146.]

Creative Element Home Page *http://ocf.berkeley.edu/~daaron/creative.html* Home page for Creative Element, specializing in web production, graphic design, software engineering, and computer consulting. [Exp. #145.]

Dana Point Communications—Beach.Net *http://www.beach.net/* Dana Point Communications provides full net connectivity from dialup to 56K to T1 leased lines as well as a full range of Web services. [Exp. #146.]

Delta Design Services *http://www.deltadesign.com/* Full service Web consulting firm: consulting, design, hosting, and marketing for any size business. [Exp. #147.]

Delta Internet Service *http://www.delta.net* Internet access provider, SLIP, PPP, Shell, Usenet, IRC, FTP, Gopher, Archie, free personal Web space. [Exp. #147.]

DNAI's MacPac ISDN *http://www.dnai.com/isdn.html* Direct Network Access is the Mac user's source for easy, affordable ISDN access. [Exp. #146.]

ElectriCiti Internet Services *http://www.electriciti.com/* Makers of PowerStation—inexpensively create professional Web sites in minutes, one year of Internet access. [Exp. #147.]

Flamingo Communications *http://www.fcom. com/* Provides reliable Internet access to individuals and businesses in the Los Angeles South Bay. [Exp. #146.]

Fountainhead Internet Systems *http://www.fountainhead.com/* Designers of World Wide Web sites. Host of the LA Superstation. LA Advertising. [Exp. #145.]

Fulldigital *http://urban1.ni.net/* Internet consulting, Web page development and hosting. Special interest in urban markets and equal access. [Exp. #147.]

Global Entrepreneurs Network *http://www.entrepreneurs.net/cyberlink/gen/htm* Premier Internet Service Provider. Complete WWW Site set-up, autoresponders, ftp site, networking resources, tools, etc. [Exp. #146.]

Gregory Springer Multimedia *http://www.webcom.com/~gsmmedia* Multimedia and home page design. Create Windows .EXEs and Help files for floppy or Internet distribution. [Exp. #145.]

Hurricane Electric *http://www.he.tdl.com/spaceservices.html* Hurricane Electric offers Web space for $1 a month as well as full-service Internet marketing including design, publicity, and analysis. [Exp. #146.]

HYNET Technologies *http://www.hynet.com* Providing unique systems that seamlessly integrate hypertext, smart search engines (HYNET), and databases for CD-ROM and Internet publishing. [Exp. #144.]

Iguana Multimedia *http://www.iggy.com/imm.htm* Iguana Multimedia provides Internet presence (Web pages), Web page design, and consulting for small business (at attractive prices.) [Exp. #146.]

IKON Communications *http://www.ikon.com* Web page designers—filmmakers with great taste and a sense of humor. [Exp. #145.]

Interactive Home Page *http://www.soos.com/homepage/homepage.html* Wishing you had your own Web page, but haven't learned HTML? Here's help. A do-it-yourself Web page. [Exp. #147.]

InterBIZnet *http://www.ibiznet.com/* We provide businesses in Southern California with Web design, hosting online marketing, and Internet expertise. [Exp. #143.]

Internet Business Guide *http://www.netcreations.com/ibg/* The second edition of the Internet Business Guide. Lets the experts show you how to make money on the net. [Exp. #146.]

Internet Literacy Consultants *http://www.matisse.net* We help people understand and use the Internet and related technologies to accomplish their goals, via seminars and consulting. [Exp. #145.]

Internet Marketing Services, Inc. *http://www.netmktg.com/* Full-service Internet solutions: quality Web pages, ISDN/T-1 access, webspace, graphics, CGI programming, online applications. [Exp. #147.]

InterNex Information Services *http://www.internex.net* Premier Internet service provider; high speed (ISDN, frame relay, WWW server). [Exp. #146.]

JES & Associates, Inc. *http://www.jes.com/jes* Hands-on workshops covering PICK, Advanced PICK, Unidata, uniVerse, UNIX, Internet, and WWW. [Exp. #144.]

MediaCity World *http://www.MediaCity.com/* Comprehensive, affordable Internet services. International Business Web Sites and Design, server co-location, and HTML classes. [Exp. #146.]

Muns Designworks *http://www.deltanet.com/users/dznwks/* A home page designer who specializes in 3-D graphics. This is a gallery of Paul's raytraced graphics. [Exp. #146.]

NCY Internetworks *http://www.ncy.com/* Dedicated to provide businesses, organizations, and individuals with Web site and page design services. [Exp. #146.]

Net Advantage *http://www. netadvantage.com/* Web site developer and marketing agency. [Exp. #144.]

NET-ism *http://www.netism.com* NET-ism implements your local and wide area network and Internet connection expertly and efficiently. [Exp. #145.]

NetRoam, Inc. *http://www.netroam.com/* Provides

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Web Page Listings *continued...*

Web design, publishing, advertising, consulting, support services to all types of small or mid-sized organizations. [Exp. #146.]

NetWings *http://netwings.com* NetWings is a software package that turns a small Macintosh into a full Internet server. [Exp. #143.]

NewsWEB *http://www.m2.com* NewsWEB provides free worldwide news, updated throughout the day to Web users as well as dedicated distribution service for organizations. [Exp. #146.]

OneEarth *http://www.1earth.com/* OneEarth works to increase the impact of the rapidly growing number of philanthropic, health conscious, environmentally conscious, and socially conscious organizations and companies in our communities through the Internet media. [Exp. #147.]

ORKA, UCR's net.citizen Directory Services *http://orka.ucr.edu/orka* Search for email addresses by name, organization, and/or hosts. From the Computer Science Dept. at UC Riverside. [Exp. #146.]

Over The Net *http://www.otn.com/* Provides complete Web site development, hosting, management, and a dedicated full bandwidth T-1 link directly to UUNET. [Exp. #146.]

P-Net *http://www.p-net.com* P-Net offers complete design, service, and support for your Web pages. Support includes HTML coding, CGI scripting, and scanning. [Exp. #144.]

PacNetWeb *http://www.pacnet.com* Pacific Internet and its PacNetWeb are your single source for Internet products and services. [Exp. #144.]

Plug Into AVCom *http://siesta.packet.net/avcom/* Total solutions Web source. We will help you deliver your business concepts via the WWW. [Exp. #143.]

PowerCom Internet Marketing *http://soho.ios.com/~powercom/* Specializing in putting businesses on the Web. Services range from turnkey web site design to providing full-service Internet presence. [Exp. #147.]

Silicon Forest Media, Inc. *http://www.sfm.com/* Putting organizations on the Web. Strategy, design, programming, project management. [Exp. #146.]

SOOS—Strong Opinions On Success *http://www.soos.com/* Poetry by Web poets and small-business mall. Provides low-cost Web pages for small businesses. [Exp. #146.]

Spin Web Design *http://www.earthlink.net/~spin/* Full-service design/development company providing cutting-edge marketing and communication solutions for the Web. [Exp. #146.]

Stutz Thorpe Publishing House *http://www.webcom.com/~gsmmedia/stzthp* Online publishing. Download story readers programs. Categories: art, biography, fiction, nonfiction, and self-help. [Exp. #146.]

SupraNet Communications *http://www.supranet.com/* Learn how to create an effective presence on the Internet quickly. Hyperlinked with a glossary. [Exp. #145.]

Tenthmuse Interactive! *http://tenthmuse.com/* Introducing your business to the world. Complete presence solutions for businesses of all sizes. [Exp. #147.]

The L.A. Internet Everything Guide *http://worldwise.com/laguide* A total guide to Southern California and beyond. All serious publications and entrepreneurs invited to help develop this domain. [Exp. #146.]

The PostMaster *http://www.netcreations.com/postmaster/* Fill our one form, click one button, and your Web site is automatically posted to over one hundred newsgroups, mail lists, and Web directories. [Exp. #144.]

Touch Technologies *http://www.in-touch.com* "Making your net work." Nationwide database, WWW, and information technology consulting. [Exp. #146.]

Value Net Internetwork Services *http://www.spiralwest.com/* Full-service Bay Area ISP. All 28.8 access, unlimited access. [Exp. #146.]

Vidya Media Ventures *http://www.vidya.com/* Combine solid technical awareness with creative energy to produce outstanding electronic media for the Internet and WWW. [Exp. #145.]

Visual Engineering's Ovation Web Page *http://www.cdrom.com/pub/viseng/* This site features Ovation, a UNIX presentation package. Release 2.0 includes HTML export and PowerPoint import! [Exp. #143.]

Web Page Design Pointers *http://www.garlic.com/rfwilson/smal-bus.htm* Twelve Web page design decisions your organization will need to make. [Exp. #146.]

Weber's Net Index Review *http://www.halcyon.com/duwamish/bulldogbeach/sw.welcome.html* Stanley Weber, the Siskel & Ebert of the Web, delivers short, snappy reviews of the sites everyone uses, everyday. [Exp. #146.]

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To list your Web home page for FREE, send us the name of the page/site, the URL (address), and a fifteen-word description. Also, please include a contact name and phone number for our reference only. Listings will run for three issues unless renewed. We reserve the right to select listings on a space-available basis and to edit those listings as needed. Send your listing to: *JohnDownen@aol.com*; Web Listings, 3470 Buskirk Ave., Pleasant Hill, CA 94523; or fax to (510)934-3958.

MULTIMEDIA WORKPLAY *continued...*

BOOKS: DESIGNING INTERACTIVITY; WOOFING THE WEB

Interactivity by Design: Creating an Communicating With New Media by Ray Krist and Amy Satran (Adobe Press, 131 pp., $40.00) a decent working treatise and technique roundu for media professionals producing interacti products. It's especially useful as a cautiona reality check for multimedia wannabes.

The authors are perhaps a bit more flo chart happy than every producer, but then n two shops work exactly alike. Our business still an emerging one, and this book presents a extended critical checklist of all the steps tha must be considered, many of which will need t be implemented in your project.

> **If you've used Excel and watched it get out of control with your data, to the point where you felt like you were trapped in a blind date with the IRS, The Cruncher might be a more helpful and benign alternative.**

Each month we seem to be ever mor enmeshed and enraptured with the Internet, a every textile mill and taqueria is lofting up Web site. Mary Jane Mara's *Web Head* (Peachp Press, 272 pp., $24.95) is primo for Macintos ether treaders. Many other books are UNIX an Windows-centered, and not all Netscape ele ments are alike for both Motorolans an Intellites. Mara concisely covers Netscape MacWeb, and MacMosaic, so that you shoul be able to find what you need directly whichev er browser you are navigating with.

There is a wealth of information on the ne external helpers, HTML, setting up pages an sites, and a list of those Internet servic providers that can (not all do) support you Macintosh. ■

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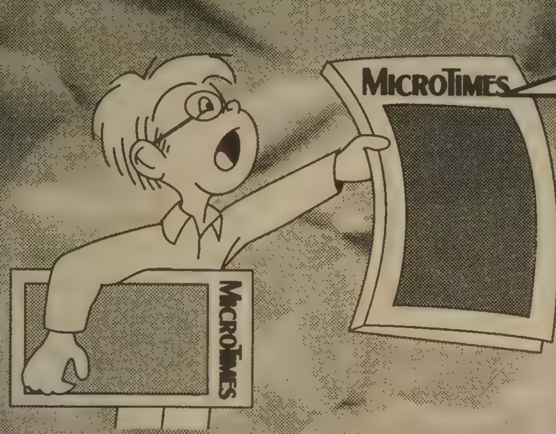

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12/18/95, Issue #145
Annual California Dealers Guide
Featuring Northern and Southern California listings of retailers, VARs, and consultants, and the services they offer. Of particular interest to business-oriented users, this issue serves as a year-round reference.

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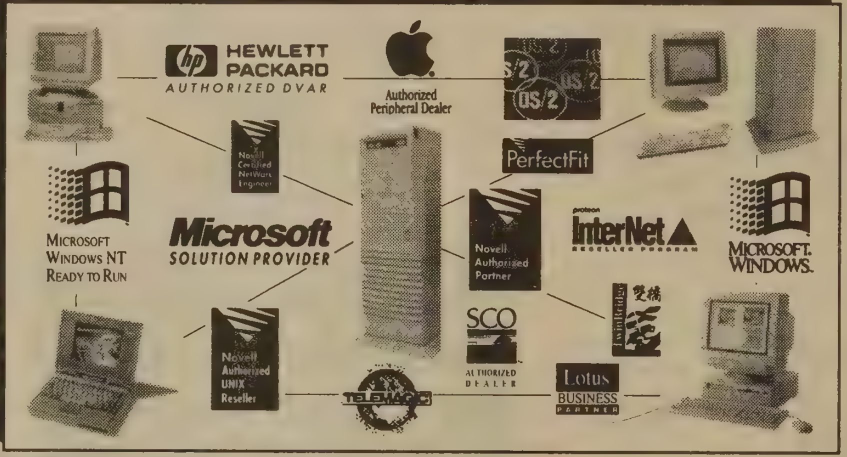

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- 10BaseT/10Base2 Combo Ethernet Card
- Quad Speed SCSI-CD-ROM Drive
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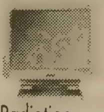

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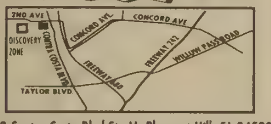

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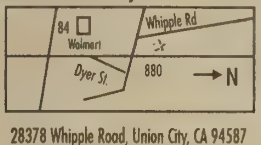

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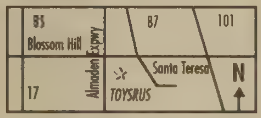

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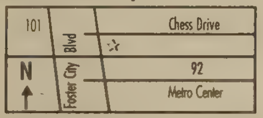

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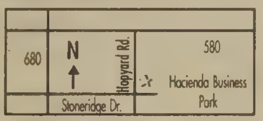

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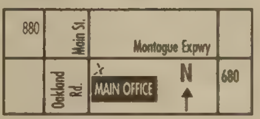

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MULTIMEDIA 101

continued from page 246

That proves to be absolutely vital to this team's form of storytelling. Sanborn elaborates, "If you've got a dramatic structure, or you've got the tent poles of a dramatic structure, it's one way to start. It turns out that for Kaplan and me, it's the perfect way to write an interactive movie.

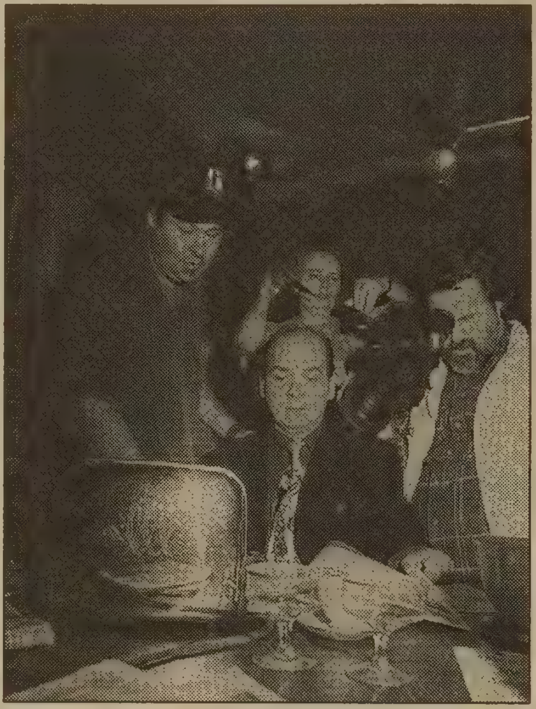
"It may not be the best way to write interactive songs—but what we did get out of it was an understanding that if there were musical elements laid down and the songwriters were thinking about 'All right, here's the center nexus of the song,' which is usually the chorus, 'if that is the hub upon which all of these other spokes rest, what are the spokes, how do they connect to the hub, must you travel through the hub every time to get back to the different spokes? How are we structuring it?'

"A lot of interactivity is about structure. Hiding the structure, revealing the structure, revelling in the structure, ignoring the structure. Because it's computer based and because it's system oriented, you can't get away from that—you just can't. You can do a lot of things with it, but it's like any set of limitations."

In the case of the "UnDo Me" song in *Meet MediaBand*, this comes down to a simple choice, when prompted at the chorus, of acting passively or aggressively in a relationship. However, there's also a "geek key," the option key, which lets you jump straight to the next decision point, because, as Sanborn wryly notes, "If I were going back into 'UnDo Me,' I'd break it into smaller pieces. Much, much smaller pieces—so you could have resolutions within resolutions, because that's truer to the emotional form. Some of the relationships should bottom out within the middle of the verse. The plug should be yanked and Kelley should be back up there again, 'What do I do? What do I do?'

"We kept the song form so that you can take each of the relationships through to the end in both passive and aggressive form. You can see what price is paid for staying in a relationship too long. You can also be sort of wistful for having yanked yourself out. There's actually some really good emotional points in the piece that I would stand by to a great extent—but again, knowing more now about interactive stories, the smaller the pieces, the more malleable the overall form, and the more you can hide the structure so that people can really feel like they're really making it up as they go along."

Thus, in *Psychic Detective*, the decision points are clustered comparatively much closer together; there are usually more than two choices; and, most significantly, if you don't make a choice the drama keeps moving and you are shortly presented with even more choices.



Sanborn: "We're trying to get it to the point where your choices are so impulsive, we're showing you possibilities without really telling you what the possibilities are—but you're reacting to them because you're in the middle of the storyflow."

Kaplan and Sanborn found that these multiple options were vital techniques for keeping the audience involved in the action—and then coming back to the title. "People will start to know that if they respond to the first thing that's thrown at them that there's going to be more coming, that if they just held back a little bit they'd have seen something else, or they would have more options or more chances or more possibilities," says Sanborn. There's a small Catch-22 buried here because, as Sanborn then admits, "They'll only know it by playing it again."

To get people coming back and going through the title repeatedly, their involvement has to be fostered. Firstly, Sanborn figured that, "There has to be an underlying feeling that if you make too many just quick-twitch responses, you know you're short-circuiting the stuff. There's dozens of sequences where we're offering you nine, ten, twelve things you can do all at the same moment. So you know there's stuff you haven't done. You know there's other possibilities. We've built that in."

However, the key element to making this technique work is old-fashioned emotional involvement and complexity. When asked for distilled advice, Sanborn replies, "What you're looking at are different emotional moments. How those emotional moments are organized over time is what makes the movie, is what makes the story.

"I think that what works well in interactive stories is a level of gut emotional attachment that still remains somewhat ambiguous, so that you're responding to prompts for a number of reasons. If the prompts are made available to you at different points for different reasons, you will intuit, not necessarily the first time through, but the second and certainly in multiple times through, what your reaction is to the situation. When you feel it in your gut you will respond."

INTERFACE

Psychic Detective plays on game machines like the 3DO and Sony PlayStation as well as PCs and, hopefully, eventually Macintosh (but there is currently no scheduled Macintosh release) so the interface is necessarily simpler than a real computer game. This is not a drawback, since it actually forces *Psychic Detective* to play more like a movie. As you watch events unfold in the central screen, icons pop up around the edge which, if selected with your controller, allow you to transfer to other characters' heads or receive those retrocognitive flashes from objects.

Sanborn explains that the object was to make it so simple that such things as a manual are basically unnecessary. His reply to a question about the specific technique of how people choose to make their intentions known echoes his overall assertion about there being no rules to break when it comes to interactive storytelling: "That's a question of interface, and I think that interface is also totally up for grabs. You can redefine it as you like. I think that pictographic or iconographic stuff is very powerful. If you've tied those icons into a general structure, it's easy to let people make very quick, very intuitive choices."

DRAMATIC STRUCTURE, PLOT AND REAL LIFE

Those choices become so intuitive not only because of this simple interface, but also through the alliance of the emotional involvement with the interwoven storylines.

Sanborn continues, "All of our prompts are tied to the story, so things appear and disappear as the story transpires. All the prompts are affected by what you do, so as you change the movie, things will or will not be there, depending on which path you're taking and how you're organizing things. We've also figured out a way to structure time by taking dramatic moments that are tied to character and by how much your character knows, how you've driven your character, a lot of different things, and we've reorganized those elements in time.

"It seems simple now, but, when we were actually working on *PD*, it was something that we wanted to do, and we didn't know how to do. It turned out to be pretty simple. It's a matter of, if you made this choice, then this is not going to be available and this will be—but if you made that choice then it's going to be totally different. It's pretty simple if you've got a known set of dramatic elements which are going to drive the story forward.

"What a character does and doesn't know is what always informs where you are in the story. It's just obvious in a game that you make that one of the undercurrents to the whole thing, along with the cumulative intelligence that a player brings to a certain situation, like watching a movie for a second time. You may know exactly the plot but you're looking at different things, you're looking deeper into the movie. Some movies like *North By Northwest*, *Citizen Kane*, or *The Fugitive* are very satisfying to watch again and again. I know the story intimately, but I'm watching the beats unfold and the play of characters against plot. It's so well done, I'm totally hooked, still totally hooked.

"In an interactive movie I can change all that. I can definitely shift all that; this bullshit about interactivity and stories not being compatible is garbage."

The question that often arises about interactive storytelling around this point is how to keep the choices characters can make credible. Sanborn discovered that complexity is a vital ingredient. It's not a matter of either/or choices such as passive or aggressive; complexity can come from the plot: "The complexity is the plot, and we found that the cinema language that people know and understand is a very, very powerful resource that you can call on to get people to make the particular choices that they make.

"That's one of the first levels of involvement. When you get the plot involved and people are making decisions based on the changes in the plot, that's so complex. It starts with a 'Should I do this or should I do that?' But in *PD*, as you learn to use your psychic detective powers better and better, you can play the movie in different ways. And we have a MacGuffin in the middle of the whole thing which changes your powers.

"But that's just step one of this kind of thing. We're trying to get it to the point where your choices are so impulsive, we're showing you possibilities without really telling you what the possibilities are—but you're reacting to them because you're in the middle of the storyflow."

But, as Sanborn points out in a philosophical moment, choices are often incredibly trivial, even if they can have far-reaching effects. "Our lives are interactive stories. Every choice you make predicts a whole bunch of other choices. I'm going to wear this shirt. I walk into the meeting wearing that shirt, and three people in the room think I'm a jerk, and three people in the room want to know where I bought the shirt. Well, that's set a tone. That's a trivial example but think of the things you've said 'yes' to that you've later on thought, 'I should have said "no" to that.' You think, 'God, I've got some regret about that.' You know, that's the way we live."

DIRECTORIAL CONTROL

This is all well and good in real life, but, as Sanborn obviously earlier admitted when talking about dramatic structure and emotional involvement, the director's hand still exerts iron control behind the scenes.

This becomes obvious once again, when he discusses another key aspect to successful interactive storytelling: "The thing about interactive movies is that you're dealing with equal parts frustration and reward for the user. Like any good story, but particularly in a mystery setting, there has to be a frustration level, which should get the audience to say, 'What happens next?' But while you're frustrating them you also have to compel them to keep investigating, or they're going to change the channel, close the book, or walk out of the movie.

"There have to be rewards, and the rewards and the frustrations have to play off each other. So for every plot point that throws you in a tizzy, there's got to be something that rewards you a beat or two later, so that you say, 'Oh, I see where that fits in. I understand this now.' The more simplistic a movie, the more often you've got the reward plot points. And the more complex a movie, the rewards are very few—but when they come in, they just blow you away."

But it's not quite as simple as just that. With *Psychic Detective*, Sanborn found that there is a need for the audience to have some control over the process of frustration: "They have to know that any choice they make is going to be rewarded. Any choice they make, they have to be able to say to themselves, 'I did that. I made that cut, I pushed that character over here.'" But, he continues, "It may be followed immediately by a level of frustration, 'Oh, fuck! I didn't really want to do this.'"

As director, Sanborn knows that it's part of his job to control that frustration, and this is exactly where cutting the story into small pieces counts, "because you can make the rhythm so much more complex. You can also make the rhythm of the choices more fast, but I think ultimately what you want to do is you want to get the people in the mood to feel like they're making the entire thing up themselves. Yes, you've given them all the parts and pieces, but they have to feel like they can do almost anything they want to do that's true to the story and the characters."

Sanborn explains that, "How the interactivity is finally realized is another level of editing—the authoring process. There's the script which is the first cut. The actual video sequences are the second cut—and then there's the authoring process which is essentially the fine cut. What you can do once you've authored something is go back one step to the video and restructure things there, to be reauthored again if you want to change how certain parts of the interactivity are done." In essence, this comes down to reediting the video to suit the demands of interactivity and the prompts.

In *Psychic Detective*, the same basic scenes might be filmed in different ways. Sanborn explains that this provides "a lot of emotional shadings to things; and also that should spark,

MULTIMEDIA 101 *continued...*

hopefully, in the viewer a changing emotional attachment to different characters." Interestingly, filming with varying nuances was something the actors loved—surprisingly, it wasn't a betrayal of character. Sanborn figures that it's "because they could exit the scene a whole bunch of ways emotionally, which to an actor is like a dream. In character, they're getting to have their emotional buttons pushed in different order and different ways, and actors love how their character reacts to those emotional buttons being pushed. They're exploring much more of the limits and the definition of who they are as that particular character. That's real acting."

THE REAL SECRET IS IN YOUR MIND

All these techniques for interactive storytelling, however, still come down to the oldest thing in the book or around the campfire, perhaps—creating a believable world for the listener, viewer, player, participant.

Sanborn feels that *Psychic Detective* is successful because "we show it to people from hard core gamers to regular people and they go nuts. They're asking the question that I would like anybody to ask in an interactive movie which is 'What happens next?' Not 'How do I kill so and so?' or 'How do I do this or how do I do that?' But 'What happens to Lena? What happens to Eric? What happens here? What happens there?' They want to play it again and they want to play it again and they want to play it again. That's one of the biggest satisfactions that you can derive—that they're totally into the story. But they know they can change the story, they want to go in and manipulate it. It's an absolute human desire to manipulate."

Ironically, much of this success is due to having figured out these techniques for character manipulation rather than the story itself. Sanborn allows, "Understanding a character and then using that understanding to alter how the character travels through the story, and by extension the world, is where it's all at. The shifting relationships between characters in an interactive story is one of the more interesting things. The point is to understand the whole universe, inhabit the world, and then use that increasing knowledge skillfully and—this is the game aspect—to play within the rules. In any good movie, like in any good game, understanding is the key to bringing people along."

RESOURCES:

Psychic Detective
Projected street price: $49.95
Available for 3DO in November, for PCs in December or January, and for Sony PlayStation in January or February.
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Some things seem to never change. ■

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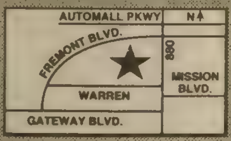

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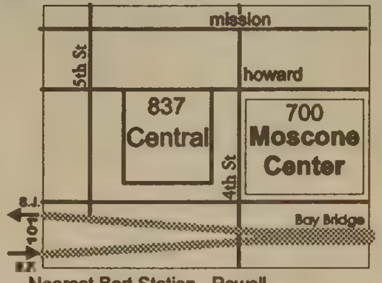

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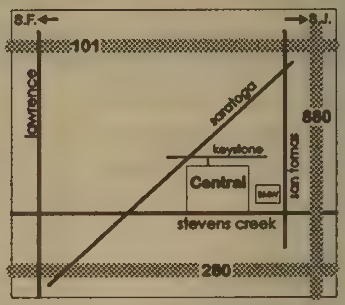

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- Prices subject to change without notice and to stock on hand
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CENTRAL
COMPUTER SYSTEMS, INC.
WIDE SELECTION AT LOW PRICES

SF STORE

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837 Howard Street, San Francisco CA 94103

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HARDWARE

1. CD DRIVE / SOUND CARD

CREATIVE LABS

Midi Kit + Software	65
SB 16 Value / SB 16 IDE (Vibra)	95/79
SB 16 MCD oem / w. ASP	79/95
SB 16 SCSI-2 oem / w. ASP	109/135
Sound Blaster Pro oem	35
Sound Blaster 32 IDE	155
Sound Blaster AWE 32 / w. ASP	169/245
Video Blaster MP-400 / Wave Blaster II	255/135

MITSUMI

FX400 230ms, 600Kb/s, IDE 4 Speed Int	149

NEC

6Xi 6 Speed Int oem / reg	379/465
CDR-222 4X SCSI oem	219

PANASONIC

CD-562 / w. SB16 & speakers ATAPI	**(69/145)*
CR-574 4X IDE Int	149

PIONEER

4 Speed, 150ms, 614Kb/s, IDE Int	185
4 Speed, 150ms, 676Kb/s, SCSI Int	249

PLEXTOR

PX-43CH 220ms, 600Kb/s, 1MB, 4X Int	309
PX-63CS 145ms, 900Kb/s, 32k, 6X Int	419

SANYO (Concord)

CDR-H93 66ms, 600Kb/s, 4X SCSI-2	199

SONY

CDU-55E 2X IDE Int / CDU-55S SCSI Int	79/119
CDU-76E 4X 250ms, 600Kb/s IDE Int	155
CSD-760S 4X SCSI / w. Adaptec Kit	229/289
PRD-150 Portable 2X w. PCMCIA Kit	345

TEAC

CD55A 195ms, 4X ATAPi, Int	**(135)*
CD56E 6X IDE Int	239

TOSHIBA

3601B 150ms, 600Kb/s, 4 Speed Int	289
5301B 150ms, 600Kb/s, 4X SCSI Int	229
XM-5302B 4 Speed IDE Int	**(155)*

TURTLE BEACH

Monte Carlo Game Card	95
Monterey Multisound / Tropez Sound Card	329/225

MULTIMEDIA UPGRADE KIT :

Adventure Multimedia 4X Upgrade Kit	335
Diamond 4000 4X Multimedia Kit w. 11 titles	299
Diamond 5000 4X Multimedia Kit w. 30 titles	379
Diamond 7000 4X Multimedia Kit w. 22 titles	379
Family Library Multimedia 4X Upgrade Kit	329
Panasonic 4X + SB16 + 4 W Speakers	229
Sanyo 4X SCSI + Jazz 16 SCSI + Labtec Speakers	259
SB Digital School House 2X CD Kit w. 20 titles	**(239)*
SB Discovery 16 2X CD Kit w. 18 titles	265
SB Discovery 4X CD Kit w. 20 titles (new)	345
SB Edutainment CD 16 w. 42 titles	375
Omni 4X SCSI-2 w. 4 titles	**(235)*
SB Multimedia Home 4X Kit w. 24 Microsoft CDs.	399
SB Multimedia Office 2X Kit	**(479)*
Sony 2X + 16 IDE Sound Card + Mini Speakers	145
Sony 2X + Jazz 16 SCSI + Labtec Speakers	189
Sony 4X + 16 IDE Sound Card + Labtec Speakers	219
Toshiba 4X SCSI + SB16 SCSI + 40W Speakers	359

OTHERS

CD Carring Case (holds 40 CDs)	**(9.99)*
CD Jewel Case	**(0.55)*
CD Pop-Out Storage Case (holds 30 CDs)	19.99
Gravis Ultrasound Ace	**(99)*
Gravis Max 32 Voice w. Doom II	**(175)*
Media Vision : Jazz 16 SCSI Sound Card	**(59)*
Tvator Pro PCMCIA VGA to NTSC Scan Converter	139
Tvator Remote Pro VGA to NTSC Scan Converter	289
Wav Jammer 16 bit Stereo PCMCIA	275

Rewritable CD Drives :

HP Sure Store CD Writer C4324A, read 4X, write 2X	**(999)*
Kodak PCD-Writer 225 Ext	1895
- Writable CD (74 min.)	8.95
JVC CD Writer (w. Adaptec, cable, software) - 2X Int / 2X Ext / 4X Ext	1875/2050/4165
Philip CDD-522 2X Int (w. software)	2145
Ricoh 2X Int (w. software)	1575
Yamaha CDR-100 4X Int / Ext	2350/2575

Speakers :

Active 75 (80W) / Active SP-690	49/35
Altec ACS52 / ACS53	99/129
Altec ACS150 / ACS300.1	105/215
EP-68 (70W) / EP-88 (80W)	35/42
EP-120 (120W) / EP-280 (40W)	59/29
Labtec CS150 / Mini Speakers (4W)	**(14.95)/*(4.99)*
PC-60 Multimedia (4W)	7.50
QIC-8803 Amplied Speakers (100W)	45
Yamaha YSTM-10 (10W)	**(59.95)*
- YST: 25W / 31W / 45W	155/185/215

2. CASE

Baby AT w. 200W / Baby Tower w. 200W	55/49
Mid Tower w. 230W Power	69
Mid Tower w. Side Door Open, 230W Power	75
Mid Tower w. 250W Power : Black / White	139/129
Full Tower w. 250W Power : 1 Fan / 2 Fans	79/95
Full Tower w. 300W Power : Black / White	199/189
Slim w. 230W Power (2 drive bay)	75

HDD External Casing :

2 half ht or 1 full ht for PC, 60W, w/o cable	89
3 half ht or 1 full ht & 1 half ht, 60W, w/o cable	105
4 half ht or 2 full ht, 200W, w. cable	129
7 half ht or 3 full ht & 1 half ht, 250W, w. cable	239

ANTEC

CD Rom or 5.25" External Casing	65
3.5" HD External Casing	59
KS-011+RPP3002: 19 Bay Server (9 front, 10 int. bay) 300W, Hot-Swap + Redundant P/S, 2 Cooling Fan	599
KS-011+RPT600: 19 Bay File Server (9 front, 10 int. bay) 300W Redundant Vertical AT P/S, 2 Cooling Fan	479
KS-022+RPP3002 : 8 Bay Tower Case 12 Slots, 300W Hot-Swap + Redundant P/S	399
KS-022+RPT600 : 8 Bay File Server 12 Slots, 300W Hot-Swap + Redundant P/S	279

3. CONTROLLER

ADAPTEC

1515 16 bit Controller w. Kit	85
1522A Fast SCSI Board, 3Mb/s / w. Kit	85/145
1542CP SCSI Board, 10Mb/s / w. Kit	175/239
2742AT SCSI EISA w. Kit	365
2842AK SCSI VLB w. Kit	239
2940 SCSI PCI w. Kit oem / reg	239/279
2940W Wide-SCSI PCI Kit w. wide int cable	299
APA1460 Slim PCMCIA SCSI	195
ASW-EZ SCSI 3.1 for Dos & Windows	69
T348K Parallel to SCSI Adapter	119
T358K EPP Parallel to SCSI Adapter	155

BUSLOGIC

KT410A IDE Cache VLB	119
KT445C SCSI VLB w. Kit	199
KT542B SCSI-2 w. Kit	209
KT757C Fast SCSI-2 & Wide-SCSI EISA w. Kit	379
KT910A IDE Cache PCI w. Kit	169
KT946C SCSI PCI w. Kit (supports 8GB HD)	199

COREL

Corel SCSI Software v2.0	85

DTC

2278VL IDE w. I/O VLB, 32 bit	35

FUTURE DOMAIN (SCSI)

TMC-1660 for AT (HD only)	119
TMC-1660 SVP (SCSI Value Pack)	127
TMC-1680 for AT (4FD & HD) / SVP	129/139
TMC-3260 PCI / SVP	129/165

KOUWELL

KW-554N 2IDE/ 2FD	19
KW557A IDE/ 1.44/ 2S(FiFo)/ ECP/ 1G	29
KW558A VLB IDE/ 2.88/ 2S(FiFo)/ 1P1G/ ECP/ EPP.	42
KW560C VLB EIDE/ FDC/ 2S 1P 1G	35
KW560D VLB EIDE/ 2.88/ 2S(FiFo)/ 1P/ ECP/ EPP	49
KW602B EIDE PCI	32

NEW MEDIA

PCMCIA Bustoaster SCSI	215
PCMCIA Bustoaster SCSI-2	219

PROMISE (drive cache)

DC-4030VL IDE VLB, cache up to 16MB	99
DC-5030 IDE PCI	129
EIDE 2300 Plus IDE/ 4HD/ 2S 1P/ 16550	59
EIDE MAX IDE ISA only	35

QLOGIC

Fast SCSI 16 bit (all SCSI CD Rom)	55
Fast SCSI EISA w. Kit / Fast SCSI VLB Kit	199/189
Fast SCSI PCMCIA	199
Fast SCSI PCI Kit / Wide-SCSI PCI Kit	249/299

SIIG (5 yr. warranty)

SC-JE0012 EIDE 4HD 16 bit ISA	39
SC-JE4012 EIDE 4HD/ 2FD 16 bit ISA	59
SC-VKA4ZZ EIDE 4HD/ 2FD/ 2 Fast Serial/ high speed ECP/P / 1 Game VLB	89

VITEX

IDE w. 2FD/ 2S 1P/ 16550 chips	39
IDE w. 4FD/ 4S 2P 1G/ 2S16550/ VLB	89
Enhanced IDE/ 4HD/ 2FD/ 2S 1P 1G/ VLB	35
Enhanced IDE/ 4HD/ 2S 1P/ VLB/ 16550	49

WONDER SYSTEM

IDE w. 4FD/ 2.88/ Drivers Tape/ 1.0 Mbps	35
VL3208 EIDE w. 4HD/ 2FD/ 16550/ VLB	55

OTHERS

ACCULOGIC IDE PCI Controller	39
ASUS SC200 SCSI-2 PCI (w. NCR chips)	85
IDE w. I/O (2S 1P) / IDE w. I/O VLB	19.50/29
IDE w. I/O (2S 1P) PCI	45

4. CPU & MATH CO

CPU :

AMD

386 DX-40	59
486-DX2-66 / DX2-80	69/79
486-DX4-100 / 120	99/119

INTEL

386 DX-33 / DX-40	39/39
486 DX-33	109
486 DX2-50 / DX2-66	135/125
486 DX4-100	159
586-60Mhz / 66MHz Pentium	199/219
586-75MHz / 586-90MHz Pentium	199/299
586-100MHz / 586-120MHz Pentium	339/489
586-133MHz Pentium	589

Math Co Processor :

ULSI

83D87 - 40	35

OTHERS

Cooling Fan for 486 CPU	6.95
Cooling Fan for 586 Pentium CPU	9.95

5. DIGITIZER

SUMMASKETCH

III 12 x 12, 4 or 16 button	*(249)269
III 12 x 18, 4 or 16 button	495
- 2 button stylus for III	39

WACOM

Art Pad II 4x5, w. Erasing Ultra Pen for PC / MAC	145/149
Art Pad II (WD2-0405S) w. Fractal Dabbler	169
Art Z II 6x8, w. Erasing Ultra Pen for PC / MAC	315/319
Art Z II 12x12, w. Erasing Ultra Pen for PC / MAC	435/459
UD-520 4-button Cursor	109
UP-201 Pressure Stylus	49.95
UP-701E Erasing Ultra Pen	69.95

6. DRIVE

FLOPPY DRIVES :

SONY

MPF-520 1.44MB 3.5" / w. frame	31/35

TEAC

1.2MB 5.25"	45
1.44MB 3.5" / w. frame / Black	35/39/45
Dual - 1.2MB & 1.44MB	85

HARD DRIVES :

CONNER

CFS-850A 850MB 15ms 64k IDE 1" ht	195
CFP-1060S 1.08GB 10ms 256k SCSI-2	279
CFS-1275A 1.2GB 12ms 64k IDE 1" ht	279
CFP-2105S 2.1GB 8.5ms 256k Fast-SCSI-2	675

FUJITSU (2 yr. warranty)

M2684SAU 540MB 12ms 256k SCSI 1" ht	179
M1606SAU 1GB 9ms 512k SCSI	315

HP

3724S 1.2GB 9.5ms SCSI-2	329
3725S 2.14GB 8.9ms SCSI-2	719

KINGSTON

PCMCIA 260MB IDE	545

MAXTOR

MXT-7540AV 540MB 14ms 32k IDE	165
MXT-7850A 850MB 12ms 32k IDE	195
MXT-71050A 1GB 12ms IDE	249
MXT-71626A 1.6GB 12ms 128k IDE	399

MICROPOLIS

MC-4221 2.1GB 9ms 512k 1/2 ht	895
MC-1936 3.0GB 11ms 256k SCSI full ht	895
MC-1936AV 3.0GB Audio Visual	1145
MC-3243 4GB 8.5ms 512k 3.5" ht	1399

NEW MEDIA

PCMCIA 105MB IDE / PCMCIA 170MB IDE	419/449
PCMCIA 260MB IDE	589

QUANTUM

LT-540S 540MB 11ms 128k SCSI-2	185
FB-1080A 1GB 12ms 128k IDE	235
FB-1080S 1GB 12ms 128k SCSI-3	315
TR-840A 840MB 14ms 128k IDE	199
TR-840S 840MB 14ms 128k SCSI	245
Atlas XP-32150 2GB 8ms 1MB SCSI-2	**(815)*
Grandprix XP-34301 4GB SCSI	995

SAMSUNG

PLS-30854A 850MB 11ms 256k IDE	209
PLS-31274A 1.27GB 11ms 256k IDE	275

SEAGATE (5 yr. warranty for 1GB+)

ST-3660A 540MB 14ms 128k IDE 1"ht.	**(165)*
ST-31220A 1.08GB 12ms 256k IDE	249
ST-31230N 1.05GB 9ms 512k SCSI-2	389
ST-31230W 1.05GB Wide-SCSI	525
ST-32430N 2.14GB 9ms 512k Fast SCSI	769
ST-31430W 2.14GB 9ms 512k Wide-SCSI	849
ST-32550N 2.14GB 8ms 512k SCSI-2	895
ST-32550W 2.14GB Fast-wide SCSI	995
ST-15230N 4.3GB 9ms 512k SCSI	1015
ST-410800N 9.0GB 11.5ms 1M SCSI	2239

TOSHIBA

PCMCIA 262MB IDE	485

WESTERN DIGITAL (3 yr. warranty)

WD-6350 635MB 11ms 128k IDE	175
WD-2850 850MB 10ms 128k IDE	199
WD-31200 1.2GB 11ms 128k IDE	295
WD-31600 1.6GB 10ms 128k IDE	395

REMOVABLE DRIVES :

SYQUEST (Mitac')

105MB 3.5" w. cart., IDE host adapter	279
105MB 3.5" w. cart., printer port for PC, Ext.	369
105MB 3.5" w. cart., SCSI for Mac, Ext.	389
270MB 3.5" w. Kit, Int	435
270MB 3.5" Bare Drive, SCSI, Int oem	349
270MB 3.5" w. cartridge, SCSI, Ext	479
270MB 3.5" w. cart., printer port for PC, Ext.	479
105MB Cartridge / 270MB Cartridge	55/65
Syquest 270MB 3.5" w. cart., IDE w. Kit, Int	465
Syquest 270MB 3.5" w. cart., SCSI-Ext	539

ZIP DRIVES :

IOMEGA

Zip Drive 100MB SCSI / Parallel	199/199
Zip Disk 100MB Single / 10-Pack	22.95/155

OTHERS

Impression CardDrive (2 slot PCMCIA)	185
Mounting Frame for 3.5" Hard / Floppy Drive	5/5
Removable Case for 3.5" HD IDE / SCSI	29/32

7. I/O CARD

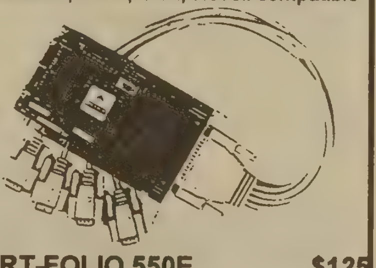
KOUWELL

KW524H 2S/1P/1G	22
KW524J 2S/2P	24
KW524L 2S(FiFo)/ 1P/ 1G	37
KW508-1 Single Parallel Port	12

QUICKPATH

HIGH SPEED
COMMUNICATION CARDS
for Remote LAN Access

FLEXPORT 42 .... $99
- 4 16550 Serial Ports
- 2 Bi-Directional Parallel Ports
- Extended IRQ selection (3,4,5,7,9,10,11,12,14,15)
- 8 Selectable Address
- Extra Parallel Port Address Setting
- Windows, OS/2, Unix, Novell compatible



PORT-FOLIO 550E $125
- 13 Ports
- 4 16550 Serial Ports
- 4 Floppy Ports
- 2 Bi-Directional Parallel Ports
- 2 IDE Ports, 1 Game Port
- Extended IRQ Selection (3,4,5,7,9,10,11,12,14,15)
- Windows, OS/2, Unix, Novell compatible

Most Suitable for
BBS Internet Users

SIIG (5 yr. warranty)

(2S 1P) w. 16550 chips	45

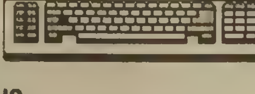
STB 4-COM

4 Serial, 16 bit, 16550, support Com 1-8, IRQ (2,3,4,5,10,11,12,15)	109

VITEX

AT I/O (2S 2P) w. 16550 chips	39

8. KEYBOARD



FOCUS

FK2001 101 Click	42
FK9000 129 Key Programmable	53

MICROSOFT

Natural Keyboard oem / reg	*65/*(79.95)*

**(price) .... SPECIALS / on SALE*   (oem) .... $, bunddled with hardware only

NORTHGATE OMNI (5 yr. warranty)

101NI / 102	*(65)/*(65)
Ultra T / Ultra F	*(75)/89

SIIG (5 yr. warranty)

Minitouch 81-key Click	45
Supertouch 101 Click	53
Wavetouch 101 Soft	39
Wintouch (for Win'95)	39
W104 (for Win'95)	29

OTHERS

Ancer 101 Key (black)	42
BTC 5100 Key Mini (80-key)	35
Keytronic 101	*(29)
Maxi 101 / Maxi 124	35/53
Mitsumi 101	29
Spill-resistant 101 Key	19.50
Unikey Natural Ergonomic Keyboard	42

9. MEMORY

DRAM

256k x 4 - 70ns	5.50

SIMM

1 x 9 - 60ns / 70ns / 80ns	(1MB)	39/38/37
4 x 9 - 60ns / 70ns	(4MB)	155/149
16 x 9 - 70ns	(16MB)	609
256k x 9 - 70ns		12
1 x 36 - 60ns / 70ns	(4MB , 72 pin)	155/149
2 x 36 - 60ns / 70ns	(8MB , 72 pin)	305/295
4 x 36 - 60ns / 70ns	(16MB, 72 pin)	595/589
8 x 36 - 60ns	(32MB, 72 pin)	1199
EDO 1 x 32 - 60ns		155
EDO 2 x 32 - 60ns		299
EDO 4 x 32 - 60ns		659

SIPP

1MB x 9 - 70ns (3 chips)	40

OTHERS

Memory for Computer, Laptop, Notebook, & Laser Printer upgrades	call

10. MODEM & FAX

BOCA

14.4 Fax Int / Ext	*(79/95)
14.4 Online Express Int / Ext	65/79
14.4 Pocket Fax	169
14.4 Voice Fax Modem Int / Ext	99/109
14.4 VSP Sound Express Fax Modem	*(155)
28.8 Fax Modem v.34 Int / Ext	*(155/199)

GARNET (5 yr warranty)

28.8 v.34 Fax Int	135

GVC (Maxtech)

14.4 Fax Int / Ext	*(49)/89
14.4 Fax Modem Voice Int	69
PCMCIA 9624 Fax	99
28.8 Fax Internal	149

HAYES

Accura 144 + Fax Int / Ext	*(87/105)
Accura 28.8/14.4 v.34 Fax Modem Ext	209
ESP Communication : Single / Dual port	85/125
Optima 288 v.34 Fax Int / Ext	369/419
Optima 288 v.34 PCMCIA w. EZ jack	299

MEGAHERTZ

PCMCIA XJ1144 Fax (MNP5)	*(165)
PCMCIA XJ2144 Fax (MNP10)	*(199)
PCMCIA XJ2288 Fax	*(269)

MICROCOM

Deskporte 28.8S V.34 Fax Ext	189
Deskporte EP 28.8 V.34 Ext	229

PRACTICAL PERIPHERALS

PM144FX144 Int / Mini Tower Ext	*(79/99)
PC28.8 v.34 Fax, 230K DTE Int / Ext	269/285
PC28.8 v.34 Ext LCD	359
PM28.8 v.34 Int / Ext	*(179/195)

PURE DATA

Satisfaxion 400 144/144 Fax Int	299
Satisfaxion 400e 144/96 Fax Ext	335

SHIVA

Net modem/E Ethernet BNC/TP	1475

US ROBOTICS

Courier v.34 28.8/14.4 Fax Int / Ext	395/425
Sportster 144/144 Fax MNP5 Int / Ext	89/105
Sportster 144/144 for Mac Ext	149
Sportster v.34 28.8/14.4 Fax Int / Ext	185/195
Sportster v.34 28.8/14.4 Fax for MAC	255
Sportster PCMCIA Fax v.34 28.8	*(289)335
Sportster Si 144 Fax Int	*(55)
Sportster Vi 144 Fax w. Voice Mail Int / Ext.	115/129
Sportster Vi 288 Fax w. Voice Mail Int / Ext.	209/225

ZOOM (7 yr. warranty)

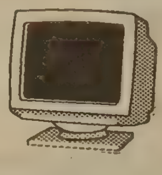
144 Fax Modem & Voice Int / Ext	*(105/159)
28.8 V.34 14.4 Fax Int / Ext	156/199

ZY-XEL

U1496E 16.8 Voice 14.4 Fax, LED Ext	299

11. MONITOR

Demos Displayed
for Selection



EYE Q

SM1411 14" Flat Mono Amber	85
SM1418 14" SVGA Mono	105

HITACHI

CM1587M 15" Flat 1280 x 1024 .28 NI	369
CM2096 20" 1600 x 1200 .31	1265

IIYAMA (Idek)

MF-8115 15" 1280 x 1024 .28	415
MF-8617E 17" 1600 x 1200, 69Hz, .26 NI	749
MT-9017E 17" 1600 x 1200, 76Hz, .25 NI	845
MF-8621 21" 1600 x 1200 .26	2235
MT-9121 21" 1600 x 1200 .30	1895

KFC

CT1428A 14" 1024 x 768 .28 NI	249
CA1507 15" Flat 1280 x 1024 .28 NI LED	375
CA1508 15" Flat 1280 x 1024 .28 NI LCD	389
CA1718 17" Flat 1280 x 1024 .26	745

MAG (auto switch power)

DX15FE 15" 1280 x 1024 .28 NI (no LED)	375
DX17F 17" 1280 x 1024 .26 NI (no LED)	689
MXP17F 17" Flat 1600 x 1280 .26 NI	*(849)

NANAO

F2.15 15" Flat 1024 x 768 .28 NI	545
F2.17 17" 1280 x 1024 .28 NI	875
F2.17EX 17" 1600 x 1200 .26 NI	995
T2.17 17" 1280 x 1024 .25 NI	1285
T2.17TS 17" 1280 x 1024 .25, Diamondtron	1029
T2.20 20" 1600 x 1280 .30 NI, Trinitron	1955
F2.21 21" 1600 x 1280 .28	1879

NEC

XE15 15" 1024 x 768 .28	579
XV15 15" 1024 x 768 .28	465
XE17 17" 1024 x 768 .28 NI	1049
XP17 17" 1280 x 1024 .28 NI	1069
XV17 17" 1024 x 768 .28 NI	*(749)
XE21 21" 1280 x 1024 .28 NI	1799
XP21 21" 1600 x 1200 .28 NI	2159

NOKIA

449E 15" 1280 x 1024 .28 NI	*(455)499
447L 17" 1024 x 768 .28 NI	689
447X-258 17" 1600 x 1280 .25 NI	975
445X 21" 1600 x 1280 .26	1945
445X 21" 1600 x 1280 .26 TCO	2055

OPTIQUEST

1000S 14" 1024 x 768 .28 NI	*(249)
1500D 14" 1280 x 1024 .28 NI	349
2000DC 15" 1280 x 1024 .27 NI	399

PANASONIC

C1791E 17" 1280 x 1024 .28 NI	*(689)749

PROTON

GM1449A 14" 1280 x 1024 .28 NI, built-in speakers & earphone	265
GM1563M 15" Flat 1280 x 1024 .28 NI, Digital, built-in speakers	355
GM1764M 17" Flat 1280 x 1024 .28 NI, Digital, built-in speakers	679

SAMSUNG (SyncMaster)

15GLi 15" 1280 x 1024 .28 NI, at 60Hz	429
17GLi 17" 1280 x 1024 .28 NI, at 60Hz	739
17GLSi 17" 1600 x 1200 .26 NI, at 68Hz	869
20GLS 20" 1600 x 1200 .28 NI, at 66Hz	1319

SHAMROCK

SRC-1405 14" 1024 x 768 .28 NI, Digital	249
SRC-1502 15" 1280 x 1024 .28 NI, Digital	335
SRC-1703L 17" 1280 x 1024 .28 NI, Digital	599
SRC-1702L 17" 1600 x 1280 .26 NI, BNC	699

SONY

1425 14" 1024 x 768 .25	*(299)
15SF 15" 1280 x 1024 .25 NI	489
17SF 17" 1280 x 1024 .25	*(859)
20SE 20" 1280 x 1024 .30 NI	1885

TATUNG

20" Analog 1280 x 1024 .31	755
TVS 9" 1024 c 768 VGA Mono	125

VIEWSONIC

14ES 14" 1024 x 768 .28 NI	289
15ES 15" 1024 x 768 .28 NI, MacII	365
15G 15" Flat 1280 x 1024 .28 NI	429
15GA 15" 1280 x 1024 .28 NI, built-in speakers	509
17GA 17" 1280 x 1024 .27 NI, plug & play	829
17GS 17" 1280 x 1024 .27 NI	759
17PS 17" 1600 x 1280 .25 NI, plug & play, TCO	879
20G 20" 1600 x 1280 .28 NI	1295
20PS 20" 1600 x 1280 .28 NI, MacII	1429
21PS 21" 1600 x 1280 .26 NI, MacII	1729

12. MOTHERBOARD

AIR (w/o cpu)

486MI : 486-DX2-66 256k, 3VLB, built-in AT I/O	159
486EI : 486-DX2-66 / DX4-100 256k, EISA, 3VLB	299

ASUS (w/o cpu)

486-DX2-66 256k PCI, built-in IDE+SCSI I/O	269
P55TP4XE 586-133 256k PCI, w. Burst SRAM	355
586-90 / 100 256k PCI EISA, dual processor	599

IBM (Opal)

486SLC-66 VLB 64k w. CPU & Math Proc	165

INTEL (w/o cpu)

586-90 / 100 256k ZP PCI, Trition, built-in IDE I/O	269
Endeavor 586-90/ 133MHz PCI, Triton, built-in IDE I/O w. Pipeline Burst SRAM & Vibra Sound	395

LYNX (USA made, w/o cpu)

486-33 / DX2-66 256k VLB Green PC, 30-pin	135
486-DX2-66 / DX4-100 256k 3VLB, 72-pin	145
486-DX4-100 256k PCI VLB, 72-pin	159

M-TECH

486-DX2-66 256k VESA, 30-pin & 72-pin	135
486-DX4-100 256k PCI, 30-pin & 72-pin	159
586-133 256k PCI, 30-pin & 72-pin	229

MICRONICS (w/o cpu)

BCP 386-33 64k, 4MB max	79
486-33 / DX2-66 256k VLB	169
JX3WB 486-DX2-66 256k VLB w. write-back cache	239
486-33 / DX2-66 256k EISA-3 / w. VLB	285/299
M54PI 586-90 w. IDE I/O (Neptune)	325
M54Hi 586-100 256k, Triton, w. Burst SRAM	415
M54HI 586-133MHz 256k	339

SUPER (w/o cpu)

P54CT 586-90 / 133 256k PCI VLB	239
P54Ci 586-90 / 133 256k PCI, built-in IDE	239
P55CMA 586-180MHz 256k PCI, Triton, built-in IDE I/O	269
P55CMS 586-90 / 180 PCI w. Burst SRAM 256k	335
- w. Burst SRAM 512k	429

TIGER V

586-90MHz 256k PCI	189

13. MOUSE & JOYSTICK

AGILER

AGM-800E Serial 400 dpi	12.50
ATB-610 Serial Trackball	21.50
Master Plus 400	16.50

ANCER (black)

3-button	19

KENSINGTON

Expert Bus 4.0	115
Expert Serial & Trackball 4.0	95
Thinking Mouse (serial & PS/2)	79

LOGITECH

Cordless II	85
First Serial / First Trackball	31/49
Fotoman Plus Camera for PC & PS/2	549
Mouseman Bus / PG15 Bus oem	64/45
Mouseman Serial	45
Serial Combo PC & PS/2 oem / reg	32/45
Trackman II / Trackman Live Cordless	65/125
Wingman Standard / Extreme	29.95/47

MICROSOFT

Bus 2.0 400dpi w. Bus Card oem / reg	65/79
Home Serial 1.0	39.95
PS/2 2.0 (round connector) oem / reg	35/59
Serial 2.0 400dpi oem : gray	29

MOUSE SYSTEMS

Altes Mouse	9.95
Cobra (joystick)	9.95
Mouse! Serial w. Pad	19
Omni Mouse (new version)	26
PC Mouse III (3-button optical)	49.50
PC Trackball II	39.95
ProAgio (5-button serial)	45
Serial Bus Card (9IRQs)	29

JOYSTICK :

MICROSOFT

Side Winder 1.0 / Side Winder 3D Pro	29/59

THRUSTMASTER

ACM Gamecard	29.95
F-16 FLCS	135
Flight Control System MK II	69
- w. US Navy Fighters	89
Flight Control System Pro	119
Formula T1 / w. Indy Car	125/139
Rudder Control	118
Weapon Control MKII	109
UPROM	29.95
XL Action	35

OTHERS

Color Mickey Pad / Flinstone Mouse Pad	5.99/7.99
Star Trek Mouse Pad / Star Wars Pad	7.99/7.99
Walt Disney Mouse Pad	4.99
Winnie the Pooh Mouse Pad	5.49

14. NETWORK

3COM

3C250 FMS 100BaseTX Fast 12 Port HUB	*(1795)
3C509B Etherlink III Coax oem	*(79)
- single reg / 5 Pack	*(109/466)
3C509B Etherlink III TPO oem	*(69)
- single reg / 5 Pack	*(105/415)
3C509B Etherlink III TP+AUI oem	*(78)
- single reg / 5 Pack	*(108/449)
3C509B Etherlink III Combo oem	94
- single reg / 5 Pack	119/525
3C579 Etherlink III EISA Coax / TP	218/219
3C589 PCMCIA TP / Combo	*(155/194)
3C590 PCI TPO oem	115
- single reg / 5 Pack	135/545
3C590 PCI Combo	*(165)
3C595-TX PCI 10/100 TP oem	159
- single reg / 5 Pack	199/725
3C597-TX EISA 10/100 TP	239
3C871 Impact ISDN Digital Modem	369
3C16170 Link Builder (12TP)	335
3C16180 Link Builder (9TP + BNC)	185
3C16670 Link Builder FMSII 12 Port	565
3C16671 Link Builder FMSII 24 Port	995
3C16640 Linkswitch 1200 6 Port, FDDI Link	4595
3C16900 Linkswitch 1000 24 Port 1 Fast	3195
3C22000 Linkswitch 2200 16 Port, FDDI	6395
3C30500 Linkswitch 500 Stackable 10 Port	2595

ADAPTEC

ATM 25.6Mb/s 128k PCI	299
ATM 25.6Mb/s 512k PCI	389
ATM 155 Mb/s 512k PCI UTP	725

ADDTRON

HUB: UTP8/L (8TP +BNC + AUI)	*(125)
HUB: UTP16/L (16TP + BNC + AUI)	249
Pocket Adapter BNC	*(99)
Transceivers: AUI-BNC / AUI-TP	*(33/33)

ALLIED TELESIS (CentreCOM)

Transceivers: MX10 (AUI - BNC)	*(31)
Transceivers: 210T (AUI - TP)	*(31)

ARTISOFT (Lantastic)

Corstream Server 5-user (8340)	*(499)
- upgrade to dedicated server	59
HUB: 8 Port (8TP + BNC)	189
HUB: 12 Port (12TP + BNC)	225
Lantastic Z (2 stations)	89
Lantastic 6.0 Starter Kit Coax 2-user	235
Lantastic 6.0 Add On NR-SI 2000C	115
Lantastic 6.0 Add On NR-SI 2000T	*(119)
Lantastic 6.0 for single / 5 / 10-user	79/329/599
- upgrade for single / 5 / 10-user	39/99/149
Lantastic for OS/2	99
Lantastic for TCP/IP single / 5-user	199/785
Lantastic PowerSuite :	
- 1 / 5 / 10 / 25-user	149/599/1075/2295
- conversion for 1 / 5 / 10-user	89/345/595
NR-SI 2000C Coax / 5 pk / 10 pk	*(74/338/617)
NR-SI 2000T TP / 5 pk / 10 pk	*(75/339/619)
NR-SI 2000A Combo	*(89)

ASANTE (for Mac & PC)

10T HUB 8 Port (8TP + 1BNC)	*(145)
10T HUB 12 Port (12TP + 1BNC + 1AUI)	*(295)
Fast Ethernet 100BaseTX 12 Port HUB	*(1475)
FriendlyNet with BNC / TP Adapter	59/55

ASCEND

ISDN Pipeline 25 Single / w. NT1	599/725
ISDN Pipeline 50 Single / w. NT1	735/875

BOCA

LAN Card : ISA TP / ISA Combo	55/65
LAN Card : VLB TP	69
PCI 32 bit Ethernet Combo	*(79)

CASTELLE

JetPress MIO TP (network printer server)	389
JetPress XIO Coax + TP	429
LANPress (print server connects up to 4 printers)	
- Ethernet Thick/Thin Coax (1P 3S)	475
- Ethernet 10BaseT (1P 3S)	475
- Ethernet BNC & 10BaseT (2S 2P)	435

CHEYENNE

Arc Serve NLM for Win	
- 5 / 10 / 25 / 50-user	249/475/825/995
Arc Serve for WinNT (NT-AS10) / 2.0	*(495)/759

CNet (Advanced Network)

2000E+ Coax / 2000E+ TP	*(35/34)
2000E+ Jumperless Combo	*(39)
3270 Emulation for PC / for PS/2	175/195
4020ERP 2 Port Repeater Coax	*(179)
5250 Emulation for PC / for PS/2	199/235
8000TPC HUB: 12 Port Stackable	299
8800TPC HUB: (8TP + BNC)	*(99)
8816TPC HUB: (16TP + BNC)	*(225)
8900TPC 12 Port SMNP Slave HUB	465
8910TPC 12 Port SMNP Master HUB	775
Personal Netware 2-user Coax / TP	109/*(99)
Personal Netware single-user Combo	*(59)

COGENT

EM100 PCI Fast-TX, 32 bit bus mastering	219
EM400 PCI Quarlet Fast (4UTP)	995
EM525 Ethernet 16 Combo	*(69)
EM595TP Ethernet PCMCIA UTP	189
EM932 EISA 32 bit Coax / TP	224/225
EM960 32 PCI Full Duplex TP / Combo	*(119/129)
EM964TP 32 PCI 4-Port Full Duplex TP	469

DANPEX

ArcNet & Token Ring products	call
5 Port Mini HUB (6TP)	89
1616i SNMP Intelligent 16port Hub	635
1616M SNMP Manageable 16port Hub	395
6200P2 PCMCIA BNC+TP	115
7000P3 32bit VLB Combo	*(75)
9400P3 32bit PCI Combo	*(79)
ER-400 4-port Repeater Coax	299
ET-510 UTP to AUI Translator	107
ET-590 UTP to BNC Translator	109
FE-1000TX ISA 100BaseTX 10/100	*(145)

*(price) .... SPECIALS / on SALE

(oem) .... $, bunddled with hardware only

CENTRAL
COMPUTER SYSTEMS, INC.
WIDE SELECTION AT LOW PRICES

SF STORE

TEL : 415 495-5888   FAX : 415 896-5888
837 Howard Street, San Francisco CA 94103
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FE-1400TX PCI 100BaseTX 10/100	*(149)*
PrintMate PM-NW (for Netware)	269
PrintMate PM-TCP (for SUN, UNIX)	279

DIGIBOARD

Data Fire: Client ISDN (2B, 1D, 128Kb/s)	395
IMAC Bridge 1 ISDN / Dual IMAC	1165/1595
PC IMAC-ISA : Server, 1ISDN	550
PC IMAC/4-1 : Multi ISDN Expension	695

HP

Advanced Stack 10BaseT 8 Port	*(245)*
Advanced Stack 12 Port HUB	599
- with SMNP	895
Advanced Stack 24 Port HUB	999
- with SMNP	1329
J2550A Jet Direct TP	315
J2552A Jet Direct Combo	375
J2382B Jet DirectEX for HP5P	349
J2593A Jet DirectEX Plus 3 Combo	449

IBM

Ether 16 Coax / TP / Combo	69/69/79
ISDN Wave Runner ISA	495

INTEL

EtherExpress 32 Flash EISA Combo	219
EtherExpress PRO/100 PILA 8465 PCI TP	*(195)*
EtherExpress PRO/100 for EISA	249
EtherExpress Pro 8/16 bit cards :	
- PCLA 8200 BNC + AUI + TP	125
- PCLA 8200 5 pack	*(525)*
- PCLA 8210 BNC + TP oem / reg	*(85/104)*
- PCLA 8210 5 pack	*(449)*
- PCLA 8220 TP oem / reg	*(74/99)*
- PCLA 8220 5 pack	*(439)*
- PCLA 8205 Flash BNC+AUI+TP	135
- PCLA 8205 5 pack	*(539)*
- PCLA 8215 Flash BNC + TP / 5 pk	125/499
- PCLA 8225 Flash TP / 5 pk	119/469
LAN Project 1.5 (virus protection)	685
LAN Sight Support 4.0	345
LAN Spool s/w 386 NLM v3.5A	425
MCLA 8120 MCA TP	175
Netport II Thin & Thick	395
Netport II 10BT	399
Netport Express XL	465
NetSatisfaxtion 3.01 for Novell 25-user	755

LANPRO

2000RC16 bit BNC / 2000JT 16 bit TP	*(35/34)*
2000RAL 16 bit Combo	*(39)*
EP3020A Pocket Combo	109
HUB : 8 Port (8TP + BNC)	*(105)*
HUB : 16 Port (17TP + 2BNC + 2AUI)	*(225)*
Personal Netware Coax Starter Kit	125

MEGAHERTZ

EM1144T PCMCIA Ethernet TP & 14.4 Modem	355
XJ10BT PCMCIA Ethernet TP	*(149)*
XJ10BC PCMCIA Ethernet Combo	*(175)*

MICRODYNE

NE2000+ Coax / 5 pack	*(79/349)*
NE2000+ TP / 5 pack	*(75/329)*
NE2000+ Combo / 5 pack	*(85/399)*
NE3200 EISA Coax / TP	445/445
NE3210 EISA 32 bit Combo	185
NE5500 32 bit PCI	*(119)*
Synchronous .35 WAN Adapter / .35+	450/869

MOTOROLA

BitSerfer ISDN Modem / TA 210	289/*(265)

NATIONAL SEMICONDUCTOR

InfoMover NE2000+ Coax / 5 pack	*(49/339)*
InfoMover NE2000+ TP / 5 pack	*(65/299)*
InfoMover NE2000+ Combo / 5 pack	*79/*(399)*
InfoMover NE4100 PCMCIA Coax / TP	*(168/169)*

NETWORTH

100 Base TX 8 Port HUB	1375

NOVELL

Dos 7 (w. Personal Netware) oem / reg.	45/55
Lan Workplace 5.0 single / 10-user.	295/1295
Netware 3.12 (3.5" FD or CD)	
- 5 / 10 / 25-user	**price same as Netware 4.1**
Netware 4.1 (CD only)	
- 5 / 10 / 25-user oem	*(495/999/1395)
- 5 / 10 / 25-user reg	*(595/1365/2065)
- 50 / 100 / 250-user oem	1695/2295/3985
- 50 / 100 / 250-user reg	2875/3995/7185
Netware Connect 2 Ports / 8 / 32	415/1445/3895
Netware NFS v1.2C	3150
NFS Client for Lan Workplace	205
Personal Netware oem / reg	39/75
Unixware Personal Edition v2.01 - CD version	319
Unixware SDK v2.0 - CD version	105

PALINDROME

Network Archivist NLM 3.1A	*(595)*

SMC

8013 Plus Elite 16 Combo / 6 pack	135/775
Elite Ultra 16 Coax / 6-Pack	105/449
Elite Ultra 16 TP / 6-Pack	106/439
Elite Ultra 16 Combo / 6-Pack	115/499
Elite Ultra 32 EISA Combo	215
Ether EZ Coax / TP	*(109/99)*
Ether EZ Combo oem / reg	*(79)/115*
Etherpower PCI : TP / Combo	*(139/155)*
Etherpower PCI 10/100	*(199)*
Netware Boot ROM for Ethernet v1.3	29.50
Tiger HUB: 100TX 16 Port	2895
Tiger HUB: 3212TC (12TP + BNC + AUI)	369
Tiger Switch XE 24 Port	6895

XIRCOM

ISDN Basic Rate Adapter	*(359)*
PCMCIA CE2-10BT TP	*(149)*
PCMCIA CE2-10BC Combo	*(199)*
PE3-10B2 Pocket Adapter Coax	*(255)*
PE3-10BT Pocket Adapter TP	*(259)*
PE3-10BC Pocket Adapter Combo	*(279)*
PS-CEM28-BT 28.8 Modem + Ethernet TP	425
PS-CEM28-BC 28.8 Modem + Ethernet Combo	495

CABLES & ACCESSORIES ....call

15. NOTEBOOK

NEC, TOSHIBA

.... call for current prices

SAMSUNG

SP758C Pentium 75MHz, 8MB RAM, 10.4", DSTN, 520MB HDD, Type II & III PCMCIA	2635
SP788T Pentium 75MHz, 8MB RAM, TFT, 10.4" 810MB HDD, Type II & III PCMCIA	3135
SP918T Pentium 90MHz, 8MB RAM, 10.4", TFT, 1.3GB HDD, Type II & III PCMCIA	3475

OTHERS

7600 Pentium 586-90Mhzm 16k, 8MB RAM, 340MB HDD, 1.44MB FD :	
- w. Active Color 75Mhz / 90Mhz	2665/2745
- w. Dual Scan Color 75Mhz / 90Mhz	2175/2275
- w. VLB Docking Station	425
9200 9.5/10.4" Viewable Screen size, 4MB (expandable to 36), VLB w. 1MB video ram, removable HD, built-in speaker & microphone :	
- 486-DX2-66, 340MB (DSTN)	1695
- 486-DX2-66, 340MB (TFT)	2155
- 486-DX4-100, 340MB (DSTN)	1725
- 486-DX4-100, 340MB (TFT)	2255

16. POWER SUPPLY

AMERICAN POWER CONVERSION

BK-280 Back-UPS (200W)	108
BK-400 Back-UPS (300W)	159
BK-450 Back-UPS (325W)	199
BK-600 Back-UPS (425W)	269
BK-900 Back-UPS (650W)	375
BP-280 Back-UPS Pro	155
BP-420 Back-UPS Pro	225
BP-650 Back-UPS Pro w. Power Chute	295
SU-450 Smart-UPS (486, 586 WS)	289
SU-700 Smart-UPS (486, 586 FS)	359
SU-1000 Smart-UPS (486, 586, FS & WS)	515
SU-1400 Smart-UPS (multiple FS & WS)	639
SU-2200 Smart-UPS	1150
SUVS-420 Smart Value Server	249
SUVS-650 Smart Value Server	315
SUVS-1000 Smart Value Server	435
PowerChute Plus :	
- for Novell	65
- for OS/2, Lan Server, 3 Com	75
- for Unix / Xenix	99
- for Windows NT	69

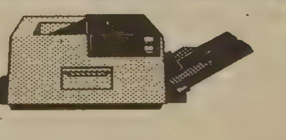
PC POWER COOLING

CPUcool for 486 or 586-90/100	19.95
Silencer Slim 205	99
Standard 230	
- for Desktop / Full Tower	85/85
Silencer 270	
- for Slim (baby or mid tower)	135
- for Full Tower	159
Turbo Cool 300	
- for Slim (baby or mid tower)	139
- for Desktop / Full Tower	169/165
Turbo Cool 400	
- for Slim / Full Tower	*(199/199)*
Turbo Cool 450 for Full Tower (3.3 volt)	325
Twinpower 900 (redundant)	925

TRIPP LITE

Isobar / Isotel	call

17. PRINTER / PLOTTER



BROTHER

HJ-400 Desktop Ink Jet for PC or Mac	*(249)*
HL-630 Laser 6ppm	399
HL-645	459
HL655M for PC & MAC, 2MB RAM	599

CANON

BJ-200EX Bubble Jet, 360x720dpi	*(215)*
BJC-600E Ink Jet, Color, Par. 720dpi	479
BJC-610 Ink Jet	549
BJC-4000 Ink Jet, Color, 360x720dpi	335
BJC-4100 Ink Jet, Color	375

CITIZEN

GSX-220 24 pin	179
GSX-230 Fonts & Quiet	219
GSX-240 Scalable Fonts & Quiet	285
GSX-345 24 pin, 132 column	365
Projet II Ink Jet	269
Accessories :	
- Color Option for GSX-130 / GXS-145	45/65

DEC (Digital Equipment)

DecLaser 5100 w. 6MB	1125
DecWriter 500i / color upgrade	285/46

EPSON

LQ-870	455
Stylus Color Inkjet 720dpi / Stylus II	539/429

HP (w. toner)

Color Laser Jet	5535
Desk Jet 600 / 660C / 850C.	299/389/529
Desk Jet 1600C PC, Mac	1329
Desk Jet 1600C Postscript PC, Mac	1919
Ink Jet Plotter Color C3190A	2395
Laser Jet 4+ / 4M+	1399/1899
Laser Jet 4Si / 4SiMX	2875/3995
Laser Jet 4V / 4MV (B size)	1895/2695
Laser Jet 5L	519
Laser Jet 5P / 5MP	*(849)/1049
Office Jet (printer-fax-copier) 3-in-1	699
Accessories :	
- Color Kit C3067A for 540 / C4533A for 600	45/47
- Duplex (C2061A) for 4Si or 4SiMX	495
- Envelope Power Feeder 75 Sheet (HP4)	279
- Legal, Letter or A4 250 Sheet Tray (HP4)	99
- Legal, Letter or A4 500 Sheet Tray (HP4)	109
- Optional 500 Sheet legal Letter A4 (HP4)	279
- Postscript (C2013A) for 4Si	575
Ink Cartridges :	
- Black (HP51626A) for 500, 540, 560	24.45
- Color (HP51625A) for 500C, 550C, 560C	28.95
- Black (HP51629A) for 600, 660	24.95
- Color (HP51649A) for 660C	29.25
- Black (HP51640A) for 1200C	24.95
- Cyan (HP51640C) for 1200C	29.95
- Magenta (HP51460M) for 1200C	29.95
- Yellow (HP51640Y) for 1200C	29.95
Toner Cartridges :	
- Toner (HP92295A) for II, IID, III, IIID	69
- Toner (HP92275A) for IIP, IIP+, IIIP	69
- Toner (HP92298A) for 4, 4M, 4+, 4M+	109
- Toner (HP92274A) for 4L, 4ML, 4P	65
- Toner (HP92291A) for IIISi, 4Si, 4SiMX	129

LASER MASTER

Winjet 1200 (postscript for HP4)	*(549)*
Winjet 1200+ (postscript for HP4+)	*(599)*

MICROTEK

TrueLaser MTP-306 35 fonts, 6ppm, 2MB	*(599)*

OKIDATA

ML184T 9 pin, Par	239
ML320 9 pin, Epson compatible	335
ML380 24 pin, Epson compatible	245
ML590 24-wire	439
OL400E Laser	*(375)*
OL410E Laser 4ppm, 600ppi	*(499)*
OL410E/PS Laser Postscript	*(775)*

PACIFIC DATA

ProTracer II Ink Jet (CAD Plotter)	899
ProTracer II-GL2 w. HP-GL2 & 2MB	1259
Accessories :	
- HP-GAL Emulation Card	375
- Ink Cartridges	19.50
- Postscript Emulation Card	375
- Sheet Feeder I / II	135/115

PANASONIC

1150 9 pin, 55dBA	139
2023 24 pin, Quiet	185
2130 Quiet Dot Matrix	*(after rebate, 169)199*
2135 Quiet Dot, Color	*(after rebate, 205)255*
3123 24 pin, Quiet, Scalable Fonts.	259
3124 24 pin, Scalable Fonts, LCD.	329
3626 24 pin, Quiet Wide-carriage	399
J250 Ink Jet, 300dpi, 128 nozzle printhead	*(259)*
4430 Laser 5ppm, 1MB	665
Accessories (for 4430 & 4410) :	
- Corona KX-PCR3	49
- Developer KX-PDP4 / KX-PDP5	110/125
- Drum KX-PDM4 / KX-PDM5	99/109
- Extra Cassette KX-PKC2	45
- Fonts Card KX-P47X	95
- Fuser Unit KX-PFS5	105
- Optional Second Cassette KX-P495	135
- Toner KX-P453	42
4400 Led Page	*(after rebate, 299)399*
Accessories (for 4400 & 5400) :	
- Apple Talk Interface KX-P412	179
- Drum Unit KX-PDM6	95
- Postscript Upgrade Board KX-PSU3	399
- Postscript Fax Option KX-PFX1	259
- RS232 Serial Interface KX-P411	95
- Toner Kit KX-P445	17.50
4440 Laser 10ppm	995
4455 Postscript 11ppm	1695
Accessories (for 4455, 4455 & 4450i) :	
- Developer KX-PDP1	95
- Drum KX-PDM1	145
- Envelope Tray KX-P430	59
- Legal Tray KX-P420	45
- Ozone Filter KX-PFT1	32
- Toner KX-P450	42
5400 Led Postscript 4ppm.	399
KXP-6100 600dpi 6ppm	399
SP-100 Multi-function printer	769
Other Accessories :	
- 32k Buffer Dot Matrix KX-P43	65
- Auto Sheet Feeder for 1124 KX-P36	120
- Color Upgrade Kit KX-PCK11	55
- Serial Interface Card PS-13	75
- Single Bin Cut Sheet Feeder KX-PT10	95

SEIKO

Smart Label Printer Plus / Pro	145/245
- Standard Label (2 rolls)	7.95

SUMMAJET (Plotter)

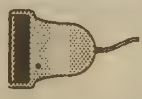
1324M Mono A - D Size	1990
1324C Color A - D Size	2250
1336M Mono A - F Size	2465
1336C Color A - F Size	2695
D Size Stand / E Size Stand	325/365

Laser Printer Accessories :

PACIFIC DATA

25 in One! for HP Deskjet 500	99
25 in One! for HP II, IID, IIP, IIP+, III, 4Si	245
Complete Font Library for HP III, IIID, IIIP	245
Font Bank for all HP Lasers 0.75MB / 1.5MB	199/259
Pacific Connect XI : for HP II, IID, III, IIID	
- 5 Port 256k / 1MB (4S 1P)	309/379
- 10 Port 256k / 1MB (10S)	449/519
for HP 4, IIISi, Paint Jet XL300	
- 7 Port 1MB / 4MB (6S 1P)	449/649
- 10 Port 1MB / 4MB (10S)	519/719
Pacific DirectNet for Novell	369
Pacific DirectNet for Novell, Unix & Etherlink	299
Pacific DirectNetEX for Novell & TCP/IP	469
Pacific 4, Postscript for HP4	259
Pacific Page II/XL 4mB, Postscript for HPII	669
Plotter in a Cartridge for HPII	225
Plotter in a Cartridge PE for IID, IIP, IIP+, III, IIID, IIIP	225

18. SCANNER



DELRINA

WinFax Pro Scanner	*(299)*

HP (flatbed)

ScanJet IIIC Color & Gray Scale w. Kit	935
- Auto Document Feeder	475
- Transparency	635
ScanJet IIIP Gray Scale w. Kit	349

LOGITECH (hand)

Scanman Easy Touch w. OCR	129
Scanman 256 w. Omni Page OCR.	119
Scanman Color w. Omni Page OCR	195
Scanman Power Page	399

MICROTEK (flatbed color)

Scan Maker II w. Photoshop L.E.	395
Scan Maker IIHR 600 dpi w. Photoshop & OCR	795
Scan Maker IIHR 600 dpi w. Picture Publisher	599
Scan Maker IISPX 300 x 600 dpi	875
Scan Maker III	2495

VISIONEER

PaperPort + OCR for Win	355

19. TAPE BACKUP

ARCADA (software)

Back Up for Windows '95	65
Back Up Exec for Dos/ Win/ Netware WS	89
Back Up Exec for Netware 7.0 Enterprise	845
Back Up Exec for Netware Single Server	465
Back Up Exec for Windows NT Server	469
Back Up Exec for Windows NT Workstation	189

COLORADO

DJ-35C Jumbo 350 340MB Int	135
DJ-50C Jumbo 1400 1.3GB Int w. Controller	259
PT-10 PowerTape 1GB SCSI Int	599
PT-25 PowerTape 2GB 300Kb/s Int	965
PTE-25 PowerTape 2GB Ext SCSI	1095
Tracker 350MB (printer port)	279
- upgrade fr 250MB to 350MB	39.95
Tracker 680MB (printer port)	335

CONNER

CNR-4320RT 2GB Int w. 5.25" rail	785
CNR-4350XT 2GB Ext	985
Tape Stor w.cartridge 420MB Int / Ext	135/289
Tape Stor w.cartridge 850MB Int	199
Tape Stor 850MB w. cart. Ext (printer port)	349

EXABYTE

EXB-2501 1 - 2GB SCSI-2 Int / Ext	475/649
EXB-4200 4mm Dat. 2GB Int / Ext	799/975
EXB-8205XL 8mm Dat. 3.5 - 7GB Int / Ext.	1275/1499
EXB-8505XL 8mm Dat. 7 - 14GB Int / Ext	1985/2275

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Surestore 5000e (C1521F) 4GB w. Kit Ext	1195
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Resident Freak Show (animation & design)	28
Retribution oem / reg	17/36
Return of the Phantom	27
Return to Ringworld	45
Return To Zork DOS / Hint Book	15/9.95
Reunion oem / reg	18/37
Rise of the Robots oem / reg	15/47
Rise of the Triad Shareware (w.10 hr. free of AOL)	11
Rise of Triad	*(25)39.95
Robinson Requiem	34
Robocop + Dune	19
Robot City (3D game)	49.95
Rodney Fun Screen	17
Royal Flush (digital pinball)	35

S

S.A.T. - I Study Ware	34
S.A.T. Personal Trainer 2.0	38
Saber Team oem	19
Saber Team (MicroLeague - Interactive)	37
Sam & Max Hit the Road oem / reg	19/32
Sammy's Science House (age 3-6) PC, MAC	35
Saturday Night Live : 1st of 20 years	32
Savage Warrior oem / reg	*(19.95)/36
School Days	18
Sea Wolf oem / reg	18/44
Seal Team Classic	*(16)
Secret Garden (video, interactive)	26
Secret of the Stargate	29
Secrets of Nature	19.95
Secrets of Pyramids	19
Seinfeld (screen saver + planner)	19
Sento + Creep Crash (2 graphic games)	24
Sesame Street Numbers	34
Shadow Caster	*(16)45
Shadow of the Comet	39.95
Shadows of Cairn	39.95
Shakespeare Collection	32
Shanghai Greatest Moment.	42
Shareware Heaven #4	12
Shareware On Line 4	37
Shareware Studio #1 / #2 / #3	12/12/12
Shark Alert oem / reg	12/29
Sherlock Holmes Bundle 1+2+3	*(29.95)
Shuttle (by Virgin Games)	23
Sight & Sound	13.99
Silent Service + 50 games (by Microprose)	18.50
Sim City 2000 oem / Guide Book	19/16
Sim City 2000 CD Collection	57
Sim City Enhanced DOS	15
Sim City Mania (shareware)	11
Sim Tower (by Maxis)	35
Sim Town	35
Simon the Sorceror.	25
Sing-a-long Around the World (Dr. T)	13
Sing An American Story	15
Sitting On The Farm	16
Slam City w. Scottie Pippen	49
Slipstream 5000 (racing game).	*(32)
Small Blue Planet : Cities Below	26
Small Blue Planet : Real Pictures World Atlas	29.95
Snoopy (5 learning activities, age 3-8)	27
Snoopy's Geography (age 3-10)	26
Snoopy's Math (age 3-10)	19
Snoopy's Spelling (age 3-10)	19
Snoopy's World Geography	19
Soft Kill	21
Software Vault: Ruby Collection	15
Software Vault: Sapphire Collection	19
Space Ace oem / reg	22/39.95
Space Adventure	15
Space Interactive	23
Space Pirates oem / reg	11/26
Space Quest VI : Roger Wilco	48
Space Quest Collector's Edition (vol. 1-5)	29.95
Space Ship Warlock PC, MAC.	*(17)
Sparky's Tangle Tail (educational)	16
Spear of Destiny (mission II & III) DOS	39.95
Special Forces + 50 games (by Microprose)	18.50
Spectrum VR (Velocity)	39.95
Speech Clip Library	14
Speed (knowledge adventure).	*(16)
Spelling Blizzard (age 9-12)	*(19.95)
Spelling Jungle	36
Sports (tennis, football, soccer)	12
Sports Best (3 in 1) DOS	12
Sports Fishing Around the World	17
SportzFreakz (game)	15
Stalingrad WIN, MAC	43
Stamps of the World	14
Star Control Collection (1+2)	19
Star Crusader by Take 2	13
Star Legions	14
Star Reach	39.95
Star Trek: 25th Anniversary oem / reg	17/55
Star Trek : Original TV	*(24)
Star Trek Omnipedia Win / MAC	45/48
Star Trek : Next Generation A Final Unity	49.95
Star Trek : Next Generation Technical Manual	39
Story Book Maker	*(16)
Stow-away (Dorling Kindersley)	38
Street Atlas 2.0 / 3.0 for Win'95	65/69
Strike Commander	*(16)
Strip Poker Pro	32
Student Writing Center (by Learning Co.)	53
Subwar 2050+ oem / reg	25/39
Super Arcade Game	17
Super Bowl Commemorative	53
Super Karts	*(36)
Super Sport II (3CD)	22
Super Street Fighter 2 Turbo	35
Super Type Mystery Library	13
Supersonic oem / reg	19/46
Symptons, Illness & Surgery	19
Syndicate Plus.	*(18)
SysOps Plus (BBS utilities).	13
System Shock	*(39.95)

T

T.F.X. Flight Simulator	*(26)
Take Your Best Shot	23
Tales of the Wild Zeep	13
Tank Commander oem / reg	39/52
Tchaikovsky 1812	*(27)
Ted Williams, the Legend's Own Story	15
Tegel's Mercenaries.	12
Terminal Velocity (shareware)	13
Terminal Velocity (oem full version)	25
Terminator 2029	17
Terror from the Deep (X-Com II)	44
Texture Pro vol. #1 / #2	12/12
The Animals MPC / MAC	*(7.99)/19
The Books of List #3	17
The Last Dynasty (Sierra) oem / reg	29/39.95
The Musical World of Professor Piccolo	*(29)49
The Pillbook (medical)	29
The Ultimate Human Body (Dorling)	47
The Way Things Works (Dorling)	48
Theme Park	43
Thinking Game Around The World (age 4-12)	11
Thinking Things & Kid Desk	35
Thundescape	47
Time Almanac '95	*(11)
Time Shop	18
Tony La Russa Baseball 3	49.99
Tonado + Falcon 3.0	*(26)
Tornado w. book	19
Total Carnage.	18
Total Soccer World Cup	13
Tramp Castle III (casino)	11
Transport Tycoon oem / reg	39/47
Travel Map	15
Treasure Galaxy	38
Treasure Mountain (by Learning Co.)	39
Trip Maker	22
Tuneland MPC oem / reg	24/45
Twain's World	16
Twilight Zone Screen Saver	25
Two Tower (by Interplay)	16

U - V

UFO (box)	*(28)
Ultima Domain	12
Ultimate Doom (original full version + new levels)	35
Ultimate Games vol.1 / vol.2	13/13
Ultimate Football 1995	32
Ultimate Shareware Collection II	13
Ultimate Seven (7 award winning games)	32
Ultrabots	*(16)
Under A Killing Moon / Guide Book	49.95/15
Undersea + Kid's Zoo + American Adventure	19
Upside Down Town (age 4-7)	18
US-Air Power	12
US-Civil War	19
US Atlas 5.0	12
US History Multimedia MPC	17
US Navy Fighters	*(38)
- Marine Fighter Expansion Disk	25
US-World War II	19
USA California	18
USA Today '90s	16
USS Ticonderoca oem	17
Utilities Heaven	12
Vampire Coffin MPC	*(12)
VR Workshop	*(33)
Video Cube - Space	*(15)
Video Jam (age 8+)	15
Vidgrid (moving puzzle game)	17
Vitual Body	19
Virtual Pool (by Interplay)	*(32)42
Virtual Vegas oem / reg	14/19
Virtuoso oem / reg	25/39
Visual C++ Multi. Adventure (book + CD)	28
Visual Chinese Cookbook (2CD)	19
Vortex (Quantum Gate II)	42
Voyeur- Interactive Movie	*(29.95)

W - Z

War 5 Zone (5 titles)	19.95
Warcraft	42
Warplanes	*(35)43
Wav Plus	13
Web Pages for Education	14
Webster Interactive Encyclopedia	19.50
Websters New World Dictionary	15
Weekend Home Project	18
Werewolf vs Commanche	49.95
Whales and Dolphins MPC	18
What Would You Do At Home?	27
Wheel of Fortune oem / reg	22/32
Who Kill Brett Penance	13
Who Kill Taylor French	13
Who Kill . . . Bundle (2 titles)	17
WIA: Windows Internet Archives.	15
Widget Workshop (by Maxis)	34
Wild Blue Yonder	43
Willy Rabbit & His Magical Books	19
Windows '95 How To	19
Windows On Wall Street	36
Windows Resume	16
Wines of the World	14
Wing Commander 1+2 / 2	37/*(16)
Wing Commander 3 / w. hint book & film.	*(45)/19.95
Wing Commander + Indy Car 500	15
Wings of Glory	*(39.95)
Wings Over Europe	35
Winnie the Pooh Animated Storybook	29.95
WinWay Resume	36
Wired for Sound Pro	16
Wizard 3.0 MPC	11
Woodstock : 25th Anniversary	*(19)
Wolf (adventure & simulation)	14
Wonder Land (by Mindscape)	17
Word Attack 3 (by Davidson)	32
Word Games / Word Hunt	16/12
Word Tales	17
World Atlas 5.01	12
World Beat oem	12
World Circuit	16
World Fact Book Multimedia	17
World History Multiemdia MPC	16
World War II	*(19.95)
World Wide Web Directory	26
World of Business / World of Dos	13/14
World of Flight / World of Internet	17/15
World of Multimedia / World of Numbers	13/18
World of OS/2 / World of Space	14/16
World of Trains / World of Utilities	18/13
World's Largest Collection of Windows Software	15
Worldcup Gold (2CD)	19.95
Wrath of the Demon DOS	17
Wyatt Earp's Old West (Groiler's)	35
X11R6 (Pacific Hi-Tech)	18
X-Com (UFO defense)	*(28)
X-Wing / Guide Book	48/15.50
- Collector Demo + Guide Book	18
Zany's Guide to Giveaways (source CD)	16
Zargon Zoo.	36
Zephyr 3D	*(24)
ZCI: Amer. Concise Encyc. + Webster Dict.	15
Zeppelin	*(22)
Zig - Zag (puzzle)	29.99
Zodiac: Super Mosaic (internet solution for Win95)	29.95
Zodiac Game Pack #2	16
Zool + Zool 2	19.95
Zork Anthrology	18

CD-i / MPEG

Movie Plus 1100 MPEG-i Decoder	199
Titles :	
- Americana WIN, MAC	39.99
- Dragon's Lair / Jusluv	24.99/18.99
- Music Video 3-pk	25.99
- New York	39.99
- Pacific Moods	12.99
- Prince Interactive	39.99
- Psychotron (interactive mystery movie)	39.99
- Return to Zork / Shark Dive	24.99/18.99
- U2 Rattle & Home	*(16.99)
Adult Titles	***27.99 each***

- American Blonde
- Bad Girls/ Lockdown pt.1
- Channel Blonde
- Endlessly
- Immortal Desire
- Massive Melons
- Parlor Games
- Supermodel
- Steamy Windows
- Suite 18
- The Mask
- Blonde Justice
- Cheating
- Dirth Looks
- Ice Women
- Intimate Journey
- Naked Reunion
- Poison
- Sex
- Shame
- The Coven
- Touch Me, Feel Me

NEW ARRIVALS

Al Unser Jr. Arcade Racing	17
Better Home & Garden: Complete Garden Guide	13
Body Art 1	19
C/C++ Super Library	16
CAD Creation	18
Caesar II	25
Casino Master 2.0 (9 casino games)	34
Color Clipart Extravaganza	15
Dream Disc II (desktop publishing)	22
Easy Business Cards WIN	38
Easy Cooking : Thai / Greek / French / Italian	18 each
Exotic Japan	36
Expert Chess 3D	16
Fonts, Fonts, Fonts	13
Hardball 5	44
History of US Space Program	17
Key Photo Gallery for Win '95	27
Languages Around the World	15
Latest Win '95 Program	15
Letters & Numbers (kids)	18
Life's Gleat Mystery	39.95
Midi 95 (sound clips, music)	14
Millennia (network playable)	43
Mosby's Medical Encyclopedia	16
Mortal Kombat 3 (network playable)	49.95
Need for Speed	34
Nerves of Steel (army game)	17
NFL Proleague Football	44
Pocahontas (age 5-10) PC & MAC	29
Pressure Drop (for Win '95)	29.95
Print Master Gold	24
Rapid Assault (by IBM)	34
Soho Bundle 2CD (7 titles)	19.50
Spinal Tap	25
Steel Panthers	42
Travel Guide: Northern/ Easthern Europe	29
Visual Basic Super Library	16
Web Surf & Publishing Kit	43
Wetlands WIN	33
	and many more

Other prices & details, please call or visit our store

*(price) .... SPECIALS / on SALE

(oem) .... $, bunddled with hardware only

Resources

Calendar Of Events

Conferences, Shows, Special Events

November

November 9 Joe's Digital Diner: A Night Of The Net Presentation. San Francisco. San Francisco Digital Media Center. Call: Joe Lambert, (415)824-9394 or *sfdmc@well.com* .

November 9–11 Fourth Foresight Conference On Molecular Nanotechnology. Palo Alto. Foresight Institute. Call: (415)324-2490 or *foresight@cup.portal.com* .

November 10 Multimedia Pioneer Lecture: Brenda Laurel. San Francisco. SFSU Extended Education. Contact: (415)904-7700.

November 11 Robert Austin Computer Show. Oakland Convention Center. Robert Austin Corp. Call: 1-800-346-0100.

November 12 Computer Show And Sale. Solano County Fairgrounds, Vallejo. MarketPro. Call: Scott Fish, (415)456-6730 ext. 24.

November 13–15 International Spectrum Business Computing Solution Show. San Jose. International Spectrum. Contact: 1-800-767-SHOW

November 13–17 COMDEX/Fall Conference And Expo. Las Vegas, NV. SOFTBANK COMDEX, Inc. Call: (617)449-6600.

November 13–18 Network Security '95: The UNIX Network Security Conference. Washington, DC. Call: (719)599-4303 or *sans@clark.net* .

November 14 Cool Entertainment Products By Hot Companies Presentation. Palo Alto. IICS. Contact: (415)252-8114.

November 18–19 Robert Austin Computer Show. Cow Palace, San Francisco. Robert Austin Corp. Call: 1-800-346-0100.

November 19 Computer Show And Sale Expo. Santa Clara County Fairgrounds. Bonanza Show Productions. Contact: (415)595-1053.

November 25 Computer Show And Sale Expo. Alameda County Fairgrounds, Pleasanton. Bonanza Show Productions. Contact: (415)595-1053.

DECEMBER 4–6

WebINNOVATION Summit

SAN FRANCISCO HILTON & TOWERS

Designed to empower leading industry professionals to take advantage of the best development tools available and to spur the creation of more compelling and differentiated content, WebINNOVATION is the first working summit for top Web content creators and application developers. Keynoted by Marc Andreessen, cofounder and VP of technology of Netscape Communications, the world's foremost experts will present new ideas, products, and technologies that will shape the future of the Web and enable attendees to attain even greater success in this quickly evolving industry. To learn more or register online, go to ***http://www.vbc.com*** or call 1-800-454-6878 or (415)391-1423.

DECEMBER 15–17

Home & Family Computing Supershow

MOSCONE CENTER, SAN FRANCISCO

The Home And Family Computing Supershow focuses on the needs of the home consumer. The Technology Theme Park setting incorporates twelve demonstration areas, which include online services, the Internet, and an "Email to the Rich and Famous" pavilion. The Computer Learning Center features more than three hundred computers loaded with a wide variety of software packages and CD-ROMs. Other areas will showcase the latest innovations in small office/home office, mobile and telecommuting products, and a Q&A area where consumers can speak with computer experts. For more information, contact MultiMedia Publishing Corp., (713)974-5252 or ***mpcshows@aol.com*** .

NOTICE

Because of the plethora of listings received and the limited space available, we are not able to list every class offered by every educator. We try to give a representative sample when we can't fit all of a company's offerings, but please call the organizations for complete information on their classes or to receive a course catalog. This is our last calendar of events this year. The next one will appear in issue #146, January 1, 1996. Happy holidays!

November 28–30 DV/CD-ROM Expo (Digital Video). New York. MHA Event Management. Contact: 1-800-945-3313.

November 30 Joe's Digital Diner: Socialization Of Cyberspace Presentation. San Francisco. San Francisco Digital Media Center. Call: Joe Lambert, (415)824-9394 or *sfdmc@well.com* .

December

December 2 Computer Show And Sale Expo. San Mateo Expo Center. Bonanza Show Productions. Contact: (415)595-1053.

December 2-7 DECUS '95: Extending The Disttibuted Enterprice Conference And Expo. San Francisco. Digital Equipment Computer Users' Society. Contact: 1-800-DECUS55 or information@decus.org.

December 3 Computer, Ham Radio, Electronics Swap. Las Positas College, Livermore. Livermore Amateur Radio Club. Call: (510)447-3857 (eve.) or (510)783-2803 (day).

December 4–8 DB/EXPO New York. New York City. Blenheim. Call: 1-800-2DB-EXPO.

December 9–10 Robert Austin Computer Show. Cow Palace, San Francisco. Robert Austin Corp. Call: 1-800-346-0100.

December 11–12 Profiting From Online Games And Entertainment. San Francisco. Institute For International Research. Contact: 1-800-999-3123.

December 11–12 Successfully Marketing And Distributing Software And Softcontent Over The Internet Conference. San Francisco. Center for Business Intelligence. Contact: 1-800-767-9499.

December 11–15 ProjectWorld 95 Conference And Expo. Santa Clara. Center for Management Research. Contact: (617)431-9797 or *admin-pw@projectworld.com* .

December 12–13 Communication Design Engineering Conference. San Jose. *Communication Systems Design* magazine. Call: Sherry Nykiel, (415)905-2354.

December 14 Joe's Digital Diner: Dana Atchley/Next Exit Performance. San Francisco. San Francisco Digital Media Center. Call: Joe Lambert, (415)824-9394 or *sfdmc@well.com* .

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New 2 Day Shows

Cow Palace

December 9 & 10, 1995......Sat & Sun
January 6 & 7, 1996......Sat & Sun

Oakland Convention Center

December 16, 1995.....Saturday
New 2 Day Show
January 13 & 14, 1996..Sat & Sun

For Locations and Dates of Upcoming Shows Call Our Show Information Hot Line 1-800-243-7041 or visit our InterNet Web Page at HTTP://www.RobertAustin.Com

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Calendar Of Events *continued...*

December 15 Multimedia Pioneer Lecture: Marc Canter. San Francisco. SFSU Extended Education. Contact: (415)904-7700.

December 15–17 Home And Family Computing Supershow. San Francisco. MPC Trade Shows, Inc. Call: (713)974-5252 or *mpcshows@aol.com* .

December 16 Computer Show And Sale Expo. Alameda County Fairgrounds, Pleasanton. Bonanza Show Productions. Contact: (415)595-1053.

December 16 Robert Austin Computer Show. Oakland Convention Center. Robert Austin Corp. Call: 1-800-346-0100.

January 1996

January 6–7 Robert Austin Computer Show. Cow Palace, San Francisco. Robert Austin Corp. Call: 1-800-346-0100.

January 7 Computer, Ham Radio, Electronics Swap. Las Positas College, Livermore. Livermore Amateur Radio Club. Contact: (510)447-3857 (eve.) or (510)783-2803 (day).

January 9–12 MACWORLD Expo/San Francisco. San Francisco. Mitch Hall Associates. Contact: 1-800-645-EXPO

January 13–14 Robert Austin Computer Show. Oakland Convention Center. Robert Austin Corp. Contact: 1-800-346-0100.

January 16–18 COMDEX/PacRim Conference And Expo. Vancouver, BC. SOFTBANK COMDEX, Inc. Call: (617)449-6600.

January 22–26 USENIX Technical Conference. San Diego. USENIX Association. Call: (714)588-8649.

Classes, Seminars, Workshops

November

November 9 Accounting Software Comparison Seminar. San Francisco. Lindquist, von Husen & Joyce, CPAs. Contact: (415)957-9999.

November 9 Lotus Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

November 9 Powerful Communication Skills For Women Workshop. Concord. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

November 9–10 Doing Business On The Internet Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

November 9–10 Successfully Implementing Computer Telephone Integration Seminar. San Jose. American Institute. Call: 1-800-345-8016.

November 9–11 PCB Design For Analog/RF Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

November 10 Managing Multiple Projects, Objectives, And Deadlines Seminar. Concord. SkillPath Seminars. Call: 1-800-873-7545.

November 10 Powerful Communication Skills For Women Workshop. San Jose. National Businesswomen's Leadership Assoc. Call: 1-800-258-7246.

November 10 PowerPoint Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

November 11 Intro To HTML/Web Publishing Class. Palo Alto. Internet Business Solutions. Contact: (415)617-3722.

November 12 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

November 12 Internet 202: Searching The Internet Class. San Francisco. Internet Literacy Consultants. Call: (415)469-8271 or *info@matisse.net* .

November 12 Internet Exploration Class. Palo Alto. Internet Business Solutions. Contact: (415)617-3722.

November 12 Intro To Internet Commerce Class. Palo Alto. Internet Business Solutions. Contact: (415)617-3722.

November 13 Administration For Netware 3.1x. San Jose. Wave Technologies International. Contact: 1-800-711-0285

November 13 Complete Online Novell CNA Training. Berkeley. Cyber State University. Contact: (510)253-TREK.

November 13 Going Online With A Macintosh Offline Seminar. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

November 13 The Internet For Artists: An Introduction To The Online World Class. San Francisco. UC Berkeley Extension. Call: (510)643-6904.

November 13–16 Professional AutoCAD Level II Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

November 13–17 Mastering The Macintosh Workshops. Monterey. MacAcademy. Contact: 1-800-527-1914.

November 13–27 Infini-D Impressive Mac Animation Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

November 13–27 Web Publishing Class. San Francisco. San Francisco Digital Media Center. Call: Joe Lambert, (415)824-9394 or *sfdmc@well.com* .

November 14 Object-Oriented Programming In C Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

November 14 The State Of Video On The Internet Class. San Francisco. Internet Literacy Consultants. Call: (415)861-3282.

November 14 Windows 95 Level 1 And 2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

November 14–15 PC Repair Two-Day Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

November 14–28 3D Studio Special Effects Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

November 14–28 Interface Design Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

November 15 ACCPAC/2000 For Windows Seminar. San Francisco. Lindquist, von Husen & Joyce, CPAs. Contact: (415)957-9999.

November 15 Doing Business On The Internet Seminar. Monterey. SkillPath. Contact: 1-800-873-7545.

November 15 Intro To HTML Programming Class. Palo Alto. MediaCity. Contact: 1-800-572-6334 or *mcu@mediacity.com* .

November 15 Software Quality And The Law Class. San Francisco. UC Berkeley Extension. Call: (510)643-6904.

November 15–17 Advanced Channels And Strategic Partnerships Workshop. Santa Clara. Computing Technology Industry Association. Call: (803)781-7188.

November 16–17 Communications And Modem Troubleshooting Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

November 16–17 Managing Your LAN Team Class. San Francisco. UC Berkeley Extension. Call: (510)643-6904.

November 16–17 Telecommunications Technologies For The Non-Engineering Professional Seminar. San Francisco. Data-Tech Institute. Call: (201)478-5400.

November 16 & 18 Advanced Adobe After Effects Workshop. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

November 16–December 21 Women And Technology: A New Establishment Class. San

Calendar Of Events *continued...*

Francisco. SFSU Extended Education. Call: (415)904-7700.

November 17 Doing Business On The Internet Seminar. San Jose. SkillPath. Contact: 1-800-873-7545.

November 17 FoxPro 2.6 For DOS/Win/Mac Level 2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

November 17 Web Masters Workshop. Palo Alto. Internet Business Solutions. Contact: (415)617-3722.

November 18 Create Your Own Web Page Class. San Francisco. MentorNet. Contact: (415)664-1091.

November 18 Ethics Of The Internet Conference. Berkeley. UC Berkeley Extension. Contact: (415)323-8141.

November 18 Using The Internet Part 4: Search Strategies Class. Berkeley. UC Berkeley Extension. Contact: (510)643-6904.

November 18–19 Digital Audio Editing With ProTools Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

November 19 Advanced HTML Techniques Workshop. Novato. North Bay Multimedia Association. Contact: (707)996-6530.

November 19 Internet 303: A Hands-On Intro To HTML Authoring Class. San Francisco. Internet Literacy Consultants. Call: (415)469-8271 or *info@matisse.net*.

November 19 Media Composer Editing Tips And Techniques Workshop. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

November 20 Complete Online Novell CNE Training. Berkeley. Cyber State University. Contact: (510)253-TREK.

November 20 Doing Business On The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

November 20 Excel 5.0 Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

November 20–21 Media Composer Advanced Effects Workshop. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

November 20–December 18 The World Wide Web And Its Browsers Class. San Ramon. UC Berkeley Extension. Contact: (510)643-6904.

November 21 CNA Hands-On Exam Preparation Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

November 21 Special Effects Software For QuickTime Workshop. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

November 21 Windows 95 Level 1 And 2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

November 22 Intro To HTML Programming Class. Palo Alto. MediaCity. Contact: 1-800-572-6334 or *mcu@mediacity.com*.

November 22 Lotus 1-2-3 4.0/5.0 For DOS/Win Level 2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

November 22 Word 6.0 Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

November 22–December 6 QuickTime Video Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

November 24 Advanced Web Builders Workshop. Palo Alto. Internet Business Solutions. Contact: (415)617-3722.

November 25 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

November 27 Doing Business On The Internet Seminar. Santa Rosa. SkillPath. Contact: 1-800-873-7545.

November 27 Intro To Client/Server Computing In The Open System Environment Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

November 27–29 Avid: Intro To Media Composer Workshop. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

November 27–30 Professional AutoCAD Level III Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

November 28 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

November 28 Doing Business On The Internet Seminar. Oakland. SkillPath. Contact: 1-800-873-7545.

November 28 Windows 95 Level 1 And 2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

November 29 Digitizing Video For CD-ROM Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

November 29 Doing Business On The Internet Seminar. San Francisco. SkillPath. Contact: 1-800-873-7545.

November 29 Intro To HTML Programming Class. Palo Alto. MediaCity. Contact: 1-800-572-6334 or *mcu@mediacity.com*.

November 29–30 HP Laser Printer Repair Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

November 30 Doing Business On The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

November 30–December 1 Client/Server Networking Class. San Francisco. UC Berkeley Extension. Contact: (510)643-6904.

November 30–December 1 Computer Literacy Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

November 30–December 21 CD-ROM Production Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

December

December 1 Advanced C/S Computing And Application Considerations Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

December 1 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

December 1 Intro To MS-DOS 5.0/6.2 Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

December 2 PowerPoint For Windows 95 Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

December 2 Producing Video For CD-ROM Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

December 2 Using The Internet Part 5: Creating Home Pages For The World Wide Web Class. Berkeley. UC Berkeley Extension. Contact: (510)643-6904.

December 2–3 Advanced QuickTime Post Production Workshop. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

December 4 C++ For Non-Programmers Class. Pleasanton. AT&T Technical Education Center. Call: Adrian Kendrick, (510)224-3929.

December 4 The Internet: What Is It? Class. San Ramon. UC Berkeley Extension. Contact: (510)643-6904.

December 4–5 AutoCAD R12 Update Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

December 4–6 Avid: Intro To Media Composer Workshop. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

December 4–6 Relational Database Concepts And Design Class. San Francisco. UC Berkeley Extension. Contact: (510)643-6904.

December 4, 11, & 18 Developing Characters For Multimedia Class. San Francisco. SFSU

Calendar Of Events *continued...*

Extended Education. Call: (415)904-7700.

December 5 Using LANtastic And Windows For Workgroups Seminar. San Francisco. Network Services Group. Contact: (415)863-8407.

December 5 Using Windows 95 Within A Novell NetWare Framework Seminar. San Francisco. Network Services Group. Call: (415)863-8407.

December 5 Windows 95 Level 1 And 2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

December 5–19 Web Page Design Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

December 6 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

December 6 Intro To HTML Programming Class. Palo Alto. MediaCity. Contact: 1-800-572-6334 or *mcu@mediacity.com* .

December 6 Using The Internet As A Marketing Channel Free Seminar. San Francisco. Network Services Group. Contact: (415)863-8407.

December 6 Using The Internet Part 5: Creating Home Pages For The Word Wide Web Class. San Francisco. UC Berkeley Extension. Contact: (510)643-6904.

December 6–7 AutoCAD R13 Update Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

December 6–8 Testing Computer Software Class. Menlo Park. UC Berkeley Extension. Contact: (415)323-8141.

December 7 Information Strategies: Windows 95 Or Windows NT As Clients Free Seminar. San Francisco. Network Services Group. Call: (415)863-8407.

December 7 NetWare 4 Overview Free Seminar. San Francisco. Network Services Group. Call: (415)863-8407.

December 7 PowerPoint 4.0 Win/Mac Level 1 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

December 7–8 Database Tuning Class. San Francisco. UC Berkeley Extension. Contact: (510)643-6904.

December 7–8 Media Composer: Integrating Third-Party Graphics Workshop. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

December 7–8 Network Fundamentals Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

December 7–17 Hi-8 To QuickTime Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

December 8 Networking Windows 95 Free Seminar. San Francisco. Network Services Group. Call: (415)863-8407.

December 8 The Internet: What Is It? Class. San Francisco. UC Berkeley Extension. Contact: (510)643-6904.

December 8–10 NetWare 4x System Administration Super Weekend. San Francisco. Network Services Group. Call: (415)863-8407.

December 9 An Overview Of Distributed Databases Class. San Ramon. UC Berkeley Extension. Contact: (510)643-6904.

December 9 Careers In Multimedia Seminar. San Francisco. SFSU Extended Education. Call: (415)904-7700.

December 9 Create Your Own Web Page Class. San Francisco. MentorNet. Contact: (415)664-1091.

December 9–10 Windows 95 System Administration Super Weekend. San Francisco. Network Services Group. Call: (415)863-8407.

December 10 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

December 11 Administration For Netware 3.1x. San Jose. Wave Technologies International. Contact: 1-800-711-0285

December 11 Using The Internet As A Sales Tool Free Seminar. San Francisco. Network Services Group. Contact: (415)863-8407.

December 11–13 Autodesk 3D Studio Advanced Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

December 11 & 13 Project Management For CD-ROM Titles Class. San Francisco. Bay Area Video Coalition. Call: (415)861-3282.

December 11–13 Relational Database Concepts And Design Class. San Ramon. UC Berkeley Extension. Contact: (510)643-6904.

December 11–14 Professional AutoCAD Level I Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

December 12 Doing Business On The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

December 12 Using Windows 95 Seminar. San Jose. SkillPath Seminars. Contact: 1-800-873-7545.

December 12 Using Windows 95 Mailmerge Free Seminar. San Francisco. Network Services Group. Contact: (415)863-8407.

December 12 Windows 95 Level 1 And 2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

December 12–13 Communications And Modem Troubleshooting Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

December 13 Doing Business On The Internet Free Seminar. San Francisco. Network Services Group. Contact: (415)863-8407.

December 13 Doing Business On The Internet Seminar. Concord. SkillPath. Contact: 1-800-873-7545.

December 13 Intro To HTML Programming Class. Palo Alto. MediaCity. Contact: 1-800-572-6334 or *mcu@mediacity.com* .

December 13 Understanding And Using The Internet Seminar. Emeryville. National Seminars Group. Contact: 1-800-258-7246 or *rccec@accunet.com* .

December 13 Using Windows 95 Seminar. San Francisco. SkillPath Seminars. Contact: 1-800-873-7545.

December 13–14 AutoCAD Designer Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

December 13–15 Avid: Intro To Media Composer Workshop. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

December 13 & 20 Video Game Animation 1A Class. San Francisco. Computer Arts Institute. Call: (415)546-5242.

December 14 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

December 14 Doing Business On The Internet Seminar. Palo Alto. SkillPath. Contact: 1-800-873-7545.

December 14 Intro To Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

December 14 Marketing Information On The Internet Free Seminar. San Francisco. Network Services Group. Contact: (415)863-8407.

December 14 Word 6.0 Win/Mac Level 2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

December 14–15 Database Tuning Class. San Ramon. UC Berkeley Extension. Contact: (510)643-6904.

December 14–15 PC Repair Two-Day Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

December 15 Intro To Excel For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

December 15 PowerPoint For Windows 95 Workshop. Santa Clara. The Copper Connection. Contact: (408)970-9838.

December 15 Understanding And Using The Internet Seminar. San Jose. National Seminars

Calendar Of Events *continued...*

Group. Contact: 1-800-258-7246 or *rccec@accunet.com* .

December 15 Using Windows 95 Seminar. Oakland. SkillPath Seminars. Contact: 1-800-873-7545.

December 16 An Overview Of Distributed Databases Class. San Francisco. UC Berkeley Extension. Contact: (510)643-6904.

December 16–17 Digital Audio Editing With ProTools Class. San Francisco. Bay Area Video Coalition. Contact: (415)861-3282.

December 16–17 Production Management For Multimedia Class. San Francisco. SFSU Extended Education. Call: (415)904-7700.

December 18 Doing Business On The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

December 18 Intro To Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

December 18–21 3D Studio Workshop. Santa Clara. The Copper Connection. Call: (408)970-9838.

December 19 IBM PC Clone Hands-On Hardware Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

December 19 Understanding And Using The Internet Seminar. Concord. National Seminars Group. Contact: 1-800-258-7246 or *rccec@accunet.com* .

December 19 Windows 95 Level 1 And 2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

December 19 WordPerfect For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

December 20 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

December 20 Intro To HTML Programming Class. Palo Alto. MediaCity. Contact: 1-800-572-6334 or *mcu@mediacity.com* .

December 20 Understanding And Using The Internet Seminar. San Francisco. National Seminars Group. Contact: 1-800-258-7246 or *rccec@accunet.com* .

December 21 Understanding And Using The Internet Seminar. Palo Alto. National Seminars Group. Contact: 1-800-258-7246 or *rccec@accunet.com* .

December 26 Administration For Netware 4.1. San Jose. Wave Technologies International. Contact: 1-800-711-0285

December 26 Intro To Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

December 27 Excel For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

December 27 Intro To HTML Programming Class. Palo Alto. MediaCity. Contact: 1-800-572-6334 or *mcu@mediacity.com* .

December 28 ABCs Of The Internet Class. San Francisco. MentorNet. Contact: (415)664-1091.

December 28 Windows 95 Level 1 And 2 Class. Emeryville. Northwest Computer Systems. Contact: (510)653-0808.

December 28 Word For Windows Class. Walnut Creek. Computer Education Center. Contact: (510)937-2566.

December 28–29 HP Laser Printer Repair Hands-On Class. Oakland. Excel Micro Solutions. Contact: (510)836-2040.

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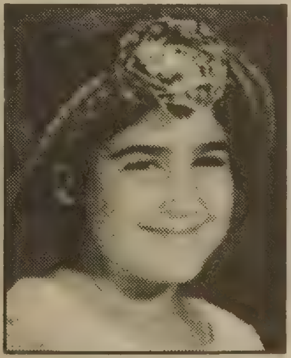

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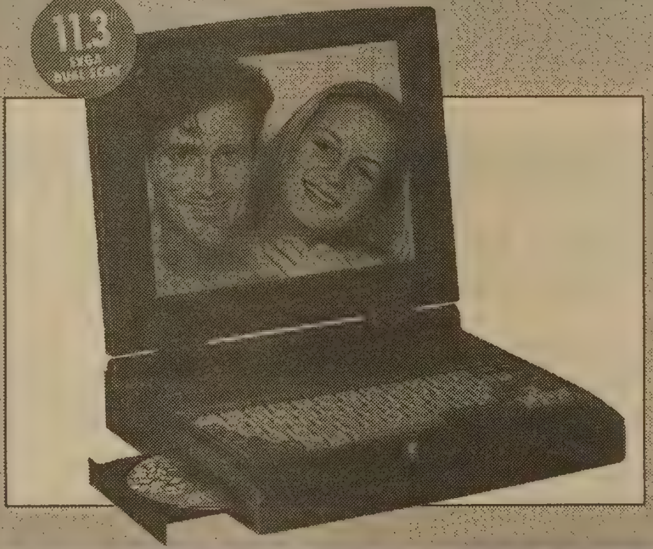

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Cirrus Logic 5434 PCI/1 MB	89

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•486DX-X PCI BOARD w/256K PCI (30+ 72pin SIMM)	87
•MICRONICS 486DX-X BOARD VLB (30pin, FULL SIDE)	55
•MICRONICS 486DX-X BOARD VLB W/256K (72pin)	135
•AMI 486DX-X BOARD W/256K VLB (72pin)	145
•PENTIUM® 66 BOARD W/256K VLB (72pin)	100
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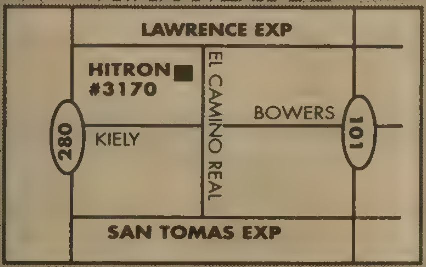

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133MHz....................$2495

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- 4X Speed EIDE CD-ROM Drive
- 16-Bit Sound Card
- 2 - PCI EIDE Controller & FDC on board
- 2 - 16550 EPP/ECP Ports on board
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- 2 - PCI EIDE Controller & FDC on board
- 2 - 16550 Serial & EPP/ECP Ports on board
- Diamond Stealth 64 PCI w/2MB DRAM
- 15" SVGA Monitor, 1280x1024, .28dp, NI
- Mid-Tower Case w/230W Power Supply
- MultiMedia Speakers
- Enhanced 101-Key Keyboard
- Microsoft OEM Serial Mouse w/Pad
- Microsoft Windows 95, CD ROM ver.

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100MHz $2195
120MHz..........$2269
133MHz..........$2459

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- 1.44MB Floppy Drive
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- 16-Bit Sound Card
- 14" SVGA Monitor, 1024x768, .28dp NI
- 2 - PCI EIDE Controller & FDC on board
- 2 - 16550 Serial & EPP/ECP Ports on board
- PCI SVGA Accelerator Card w/1MB
- Mini-Tower Case w/230W Power Supply
- MultiMedia Speakers
- Enhanced 101 Keyboard
- Hi-Res Mouse w/Pad
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- Mid-Tower Case w/230W
- 101 Enhanced Keyboard
- Microsoft OEM Serial Mouse w/Pad
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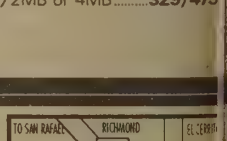

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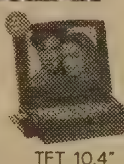

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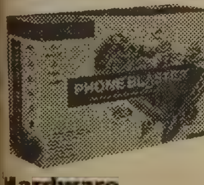

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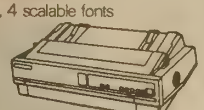

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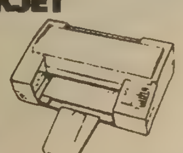

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Omega Systems BBS. (408)998-3237, voice help 438-6658. Business system, loans, title, real estate, multilevel, legal, investors, community, ChristNet, Dads and Kids. [Exp. #143.]

The Online Islamic Bookstore & BBS. (408)249-4988. 8-N-1, 24 hrs., up to 14,400. Finest Islamic books, CD-ROMs, software, audio; knowledge files, more. Free 1hr./day. [Exp. #147.]

Pacific Exchange BBS. (408)946-8561. Full Internet SLIP accounts, satellite link, 16 CD-ROMs, 100,000 DOS/Windows files, more. Fee. [Exp. #143.]

Paradise OnLine. (408)227-9822. 24 hrs., 28,800. Multiline. 30,000+ latest DOS, Windows, games, and adult files. Internet email. [Exp. #146.]

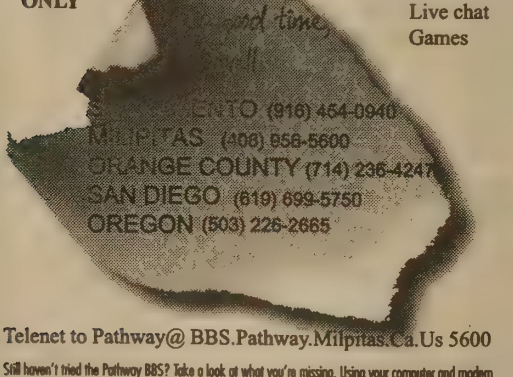
Recycle Bookstore BBS. (408)297-3225. 24 hrs. Used books. Just getting started. Please be patient. Free!!! We ship. [Exp. #146.]

ShrinkTank BBS! (408)257-8131. 8-N-1/7-E-1, 24 hrs., 2400–14,400. Psychology theme. Hundreds of psych text and program files. All users welcome. [Exp. #146.]

Star League BBS. (408)847-4812. 8-N-1, 24 hrs., 14,400. Doom!, TradeWars II, and many more files. Running under PowrBBS. Free. Sysop: Mark Wilson [Exp. #143.]

Sweet Whispers BBS. (408)574-7888. 8-N-1, 24 hrs., 14,400. Adult social network, chat, email, library, erotica/casino progressive slots. Free trial. [Exp. #147.]

Thunder Mountain BBS. (408)978-0302. 8-N-1, 24 hrs., 14,400. Eight lines.



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BULLETIN BOARDS cont.

Chat, files, games, MatchMaker, more! Free Family Fun! [Exp. #143.]

TIPS BBS. (408)265-7529. 8-N-1, 24 hrs., 1200–14,400. Internet email, Usenet newsgroups, latest shareware, technical support. Free/fee. Sysop: Wm Duemler. [Exp. #143.]

VidGam2 BBS. (408)737-7791. 28,800. Adult GIFs, games, 1000s utils., free Internet newsgroups, email, FTP-mail, Fido. Sysop: Marcelo Hassmer. [Exp. #143.]

The X Files BBS! (408)526-9815. 24 hrs., 300–14,400. 100,000+ shareware files on- and offline: Arsenal, NightOwl, Software Vault. Free. [Exp. #147.]

415

A Family Bulletin Board. (415)459-6094. 24 hrs., 2400–14,400. Free files, downloads, investments, financial, Internet email, newsgroups, WWW. Free/fee. [Exp. #146.]

Airtight Garage. (415)641-0348. 8-N-1, 24 hrs., 300–28,800. FidoNet/Internet motorcycling; science fiction, Libertarian messages. More. Free/donation. Sysop: Carlos. [Exp. #147.]

Atomic BBS. (415)564-2935. 8-N-1, 24 hrs., 1200– 28,800. Giant LORD game, BRE, SRE, more. No X-rated! Free trial. [Exp. #147.]

Bay Area Luv Connection. (415)822-7550. 24 hrs. 16 lines. We're back. Adult board. [Exp. #143.]

BayBytes BBS. (415)327-2098. 24 hrs., 2400–28,800. Infotainment, Internet email, chat, games, networking for small/home business. Free trial. [Exp. #146.]

The Classifieds BBS. (415)665-4287. 24 hrs., 28,800. Buy, sell, trade! Free advertising, local and FidoNet message areas. Free. Sysop: John Suelen. [Exp. #146.]

Club 21 BBS. (415)386-2185. 8-N-1, 2400–14,400. Personals, XXX GIFs, Txt, MatchMaker, adults 21 over only. Str/Les/Gay. [Exp. #146.]

EMPiRE 2991. (415)364-2991. 8-N-1, 24 hrs., 28,800. Many online games, chat, Internet, messages, files. Growing fast! Fee. Sysop: Kevin La Barre. [Exp. #147.]

ETVC BBS. (415)239-8467. 8-N-1, 24 hrs., 2400. TV, TS, TG support. Files, messages, news. No fee. [Exp. #143.]

Flying High BBS. (415)467-2303. 24 hrs., 9600–28,800. Gay/straight XXX, games, LORD, 18+ verification for adult access. Free. [Exp. #143.]

Forbidden Palace BBS. (415)225-9796. 24 hrs., 14,400. Six nodes. 6GB, awesome adult BBS, great XXX graphics. Low rates. [Exp. #147.]

Gamers BBS. (415)592-4496. 8-N-1, 24 hrs., 14,400. Five nets, 1.2GB and CD online, 25+ doors. Free/donation. Sysop: Gamer. [Exp. #143.]

GameWorld. (415)493-0607. 8-N-1, 24 hrs., 300–14,400. Over 100 games to download, five doors, family oriented. Free! Sysop: Jesse Radin. [Exp. #143.]

Hints BBS. (415)572-8219. Multiline, high-speed modems. Internet, Fido and RIME conf., files. Great rates! [Exp. #143.]

IBBS West. (415)564-9440. 8-N-1, 24 hrs., 300–28,800. PC and compatibles, shareware, utils., adult GIFs, CD-ROM 13,000 files. Fee. [Exp. #143.]

Interact. (415)961-6911, telnet: diversion.com . 24 hrs., 1200–14,400. 32 lines. Live chat and multiplayer games. 18/over only. [Exp. #147.]

Kewl! BBS. (415)592-8520. 24 hrs., 2400–28,800. Games, files, forums, Action teleconference. Major BBS. Free trial. [Exp. #146.]

The Message Warehouz BBS. (415)587-4544. 8-N-1, 24 hrs., 14,400. Internet mail, online CD-ROM, conference areas! Online since 1990. [Exp. #143.]

The Mother Ship. (415)665-5496. voice help: 665-6920. 8-N-1, 24 hrs., 14,400. New visions for planet Earth, community. Network with us! [Exp. #147.]

Near Side BBS. (415)369-5063. 8-N-1, 24 hrs., 2400–28,800. FidoNet, local messages, CD-ROM online, friendly users. Free/subscription. Sysop: Adam Tordoff. [Exp. #143.]

Ocean Beach BBS. (415)861-8178. 8-N-1, 23 hrs., 2400–14,400. New. Daily surf report. Quality shareware, CDs, messages, news. Free/fee. [Exp. #147.]

OfficeWeb Business BBS. (415)753-3479. 24 hrs., up to 28,800. Virtual office, database development, CIM, careers, Internet, classifieds. Free. Voice: (415)753-2623. [Exp. #147.]

The Pyramid/2 OS/2 BBS. (415)494-7497. 8-N-1, 24 hrs., 2400–14,400. Provides the latest in OS/2 files, information. Files added daily. Free. Sysop: Sven Sampson. [Exp. #143.]

The ShadowLands. (415)856-3375. 24 hrs., 1200–28,800. Full access for nonporks, FrogSoda. We are water resistant Phreaks. Free. Sysops: Dasium and Shorty. [Exp. #143.]

The Shadow Zone IV. (415)868-2344. 8-N-1, 24 hrs., 1200–14,400. Small but friendly BBS in West Marin. Cooking/recipe forums. Free. Sysop: Katherine Smith. [Exp. #146.]

TamTech BBS. (415)759-5529. 8-N-1, 24 hrs., 2400–14,400. New BBS dedicated to quality shareware files for IBM compatibles. Free. [Exp. #143.]

Toad Hall BBS. (415)595-2427. Full Internet access, Usenet, RIME, Intelec, ILink, more. Free trial. Sysop: Gordon Anderson. [Exp. #143.]

Urbanite BBS. (415)528-6602. 8-N-1, 24 hrs., 57,600. DOOM game connection, chat, Internet, doors, huge download. Free basic. [Exp. #147.]

VidGame BBS. (415)742-6486, 369-7356. 28,800. Nine nodes. Adult files; 1000s utils.; Internet newsgroups, email; Fido; more. Sysop: George Hassmer. [Exp. #146.]

510

Aaron Construction Company BBS. (510)521-0281. 8-N-1, 24 hrs., 1200–28,800. Construction Q&A, lots of files, Survival and Paul Revere Network conferences. Free. [Exp. #146.]

Albatross! Gardening Club. (510)449-8750. 8-N-1, 24 hrs., 28,800. IBM games, DOS/Windows utilities, shareware; Mac files, MVP Software, more. Sysop: Paul George. [Exp. #147.]

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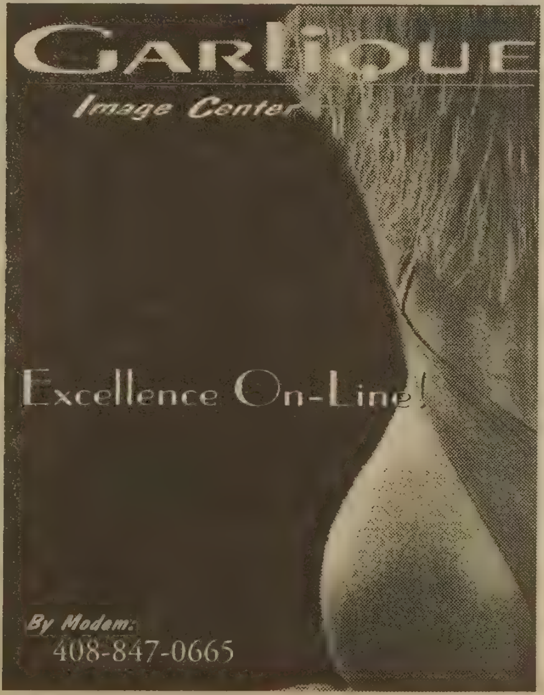

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BULLETIN BOARDS cont.

Amiga Addicts Anonymous BBS. (510)680-2850. 24 hrs., 1200–14,400. Amiga files only. Free. Sysop: Stanley Poland. [Exp. #147.]

Dr Jack's Thing. (510)689-4022. 8-N-1, 24 hrs., 28,800. 20,000+ files; Asian, Japanese, other adult GIFs; games; email; much more! [Exp. #143.]

Dragonhead BBS. (510)417-8718. 8-N-1, 24 hrs., 1200–14,400. Thousands of files, LORD, TW2002, Fido, Internet email, friendly. Free trial. [Exp. #143.]

DVPC BBS. (510)943-6238. 8-N-1, 300–14,400. Diablo Valley User Group news, shareware, FidoNet. Free access. [Exp. #146.]

Exodus BBS. (510)886-6513. 8-N-1, 24 hrs., 14,400. ANSI, ASCII, VT-100, TTY. Many shareware files, huge message conferences. Free/fee. Sysop: Fuzz. [Exp. #143.]

Genesis BBS. (510)704-1472. 24 hrs., 28,800. Small/home business resource board, Internet, 5GB shareware, more. [Exp. #147.]

Gold Diggers BBS. (510)568-7807,,,25,25. 24 hrs., 2400–28,800. IBM, Atari ST, Amiga, Mac, files, games, and messages. $10/year. Sysop: Harry Goldberg. [Exp. #143.]

Gospel Ministry Through PC. (510)932-8778. 8-N-1, 2400–14,400. Daily devotion readings, Bible promises, etc., ANSI art, RIP graphics. Free. Sysop: Dr. Daniel Maedjaja. [Exp. #143.]

Greater Light Online. (510)724-9296. 24 hrs., 14,400. Christian. Many message bases, multiline chat, 12,000+ files. Free! Sysops: Michael Bryant, Gary Varney. [Exp. #146.]

The Hi-Lux BBS. (510)233-7859. 8-N-1, 24 hrs., 300–28,800. Don't believe the hype. [Exp. #147.]

Integrated Systems Online! (510)252-1722. 8-N-1, 24 hrs., 1200–19,200. Online games, discussion conferences, file transfers, adult files, lots of fun! Free/fee. Sysop: Rich Bland. [Exp. #143.]

K 3's Over The Wire Resumes. (510)370-3719. 90-day free resume listing. Free job hotlines. [Exp. #143.]

Krystal Dreams BBS. (510)783-7261. 8-N-1, 24 hrs. No ugly fees!! Just maintain file ratios and read policy. 2GB. [Exp. #143.]

Latino On-Line Access. (510)770-0927. 8-N-1, 24 hrs., 14,400. Latino info, FidoNet, Internet, files, door games, all are welcome. Free. [Exp. #143.]

LiverGulch BBS. (510)606-9846. 24 hrs., 28,800. Four lines. New! Windows-only, multitasking BBS. Science, technology, NASA GIFs, Windows shareware. Sysop: Ken Marsh. [Exp. #143.]

Maddog! BBS. (510)895-8089, 483-0203. 24 hrs., 2400–28,800. 20 CD-ROMs, online games, FidoNet, Raider and 49er echos, sports, files. Sysop: Troy Earp. [Exp. #147.]

The New-Ark BBS. (510)796-0947. 24 hrs., 14,400. Internet files, CD-ROM. 10 downloads a day. Free. [Exp. #147.]

Online Access. (510)494-1060. 24 hrs. Windows GUI BBS offering free conferences, files, Internet, sports, online games. [Exp. #143.]

Pleasant BBS! (510)689-0519,,22. 24 hrs., 2400–28,800. Most new GIFs, games, shareware, adult files, more. Very friendly sysop. Free/fees. [Exp. #143.]

The Rat's Lair. (510)644-3280. 8-N-1, 24 hrs., 2400–14,400. OS/2, Windows 95/NT, Disneyana, science fiction, much more. Friendly, free. Call! [Exp. #146.]

Sir James BBS. (510)465-8649. 24 hrs., 300–14,400. Adult graphics (gay/straight), games, Windows, pagan/occult/magick, more. $5 lifetime. Sysop: Sir James. [Exp. #147.]

Terminal One BBS. (510)689-9528. 28,800. Four lines. Files, games; Free Internet email, newsgroups. Multinode chat. [Exp. #143.]

VidGame BBS. (510)601-0771. 28,800. Nine nodes. Adult files; 1000s utils.;

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USER GROUPS

AMIGA

AWEST—Amiga Users In SF. Meetings: 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission St. (near Ocean), San Francisco. Call: (415)474-1164, BBS (415)441-5145. [Exp. #148.]

FAUG—First Amiga User's Group. Meetings: 1st Tues., 7:30 pm, HT Electronics, 275 N. Mathilda Ave., Sunnyvale. Q&A, new product demos, public domain software. Call: Mike Fischer, (415)855-9816, BBS (415)341-7566, *mikef@hpl.hp.com* . [Exp. #146.]

RE-Amiga—Redwood Empire Amiga Users Group. Meetings: 2nd Tues., 7:00 pm, Sonoma State University, Darwin Hall, Rm. 121, 1801 East Cotati Ave., Rohnert Park. Call: (707)523-9978 or BBS (707)539-6944. [Exp. #148.]

TOGA—The Other Group Of Amigoids. Meetings: 4th Sat. (except Nov.), 12:30 pm, Milpitas Community Library Meeting Room, 40 N. Milpitas Blvd., Milpitas. An informal group to share ideas, PD software, and information. Call: Lawrence Brown, (408)526-4487 or Randy Abel, (408)356-9405. [Exp. #146.]

APPLE

SPC Apple User Group. Meetings: 2nd Tues., 6:45 pm, CompUSA, New Park Mall, Newark (I-880 exit west on Steveson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: Dean Fearn, (510)881-9160. [Exp. #146.]

ATARI

ABACUS—Atari Bay Area Computer Users Society. Meetings: 1st Sat. 1:00 pm, Potrero Branch Public Library, 2nd floor, 1616 20th St., San Francisco. Supporting all Atari computers and video games systems. Call: Roger Sinasohn, (415)469-7924. [Exp. #148.]

Bay Area Atari Users Group. Meetings: 1st Mon., Agnews Development Center West Campus Auditorium, San Jose. Write: c/o 3691 Eastwood Cir., Santa Clara 95054-2121. Call: Steven Lee, (408)988-3878. [Exp. #146.]

San Leandro Computer Club. Meetings: 1st Tues., 8:00 pm, San Leandro Main Library, Estudillo Room, 300 Estudillo Ave. Call: Robbie, (510)797-5636. [Exp. #146.]

CAD

BMUG Mac CAD SIG. Meetings: last Tues. (none in Dec.), 6:00 pm, San Francisco Apple Office, One Bush St., 10th Fl. (at Market St.). Presentations, demos. Free. Call: Steve Lukrofka, (415)931-8866 or *LUK@aol.com* . [Exp. #147.]

MAUG—Marin AutoCAD Users Group. Meetings:1st Thurs., 6:30 pm, Autodesk, 111 McInnis Pkwy., Demo Rm., San Rafael (next to Embassy Suites). Call: Priscilla Mills, (415)491-9111. [Exp. #146.]

San Francisco AutoCAD User's Group. Meetings: 1st Mon., 6:00 pm, SFSU Downtown Center, 425 Market St., San Francisco. Door prize every meeting. Call: (415)821-7988. [Exp. #146.]

Sonoma County AutoCAD Users Group. Meetings: 3rd Wed., 6:30 pm, Piner High School, Rm. H-83, 1700 Fulton Rd., Santa Rosa. Call: John Weitzel, (707)525-8147. [Exp. #146.]

South Bay AutoCAD Users Group. Milpitas. Call: (408)282-4448. [Exp. #146.]

COMMODORE

CHUG (Commodore Hayward User Group). Meetings: 2nd Sat., 2:00 pm, Palma Ceia Park Clubhouse, Hayward. Commodore 64 and 128 owners are welcome to attend. Call: (510)531-3734 or 793-7868. [Exp. #147.]

CWEST—Commodore 64/128 Users In SF. 2nd Wed., 6:30 pm, Excelsior Branch Public Library, 4400 Mission (near Ocean), San Francisco. Call: (415)626-9946, BBS (415)441-5145. [Exp. #148.]

Diablo Valley Commodore Users Group. Meetings: 3rd Thurs., 7:00 pm, Contra Costa Water District Anteroom, 1331 Concord Ave., Concord. Call: (510)689-3224. [Exp. #143.]

FUNHUG (Fremont, Union City, Newark, Hayward User Group). Meetings: 3rd Thurs., 7:00 pm, Newark Library Conference Room, Newark. For the Commodore 64/128 computer. Call: (510)793-7868. [Exp. #147.]

DESKTOP PUBLISHING

Bay Area Corel Artists And Publishers (BAYCAP). Meetings: 1st Mon. (2nd if holiday), 7:30 pm, Varian Associates, Bldg. 7, 3075 Hansen, Palo Alto. $5 for nonmembers, membership is $35/year. Call: (408)252-5586. [Exp. #143.]

IBM AND COMPATIBLES

AT&T Computer Users Group. Meetings: 1st Wed., 7:00 pm, 50 Fremont St., 40th Floor—near 1st and Mission, San Francisco. Demonstrations, technical support, informal discussion. Call: (415)885-6631. [Exp. #147.]

Business Operations SIG Of The Software Forum. Meetings: 1st Tues., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Call: Mike Schmit, (408)244-6826. [Exp. #148.]

Diablo Valley User Group—DVPC. Meetings: 1st Thurs., 7:30 pm, Bank of America, Bldg. B, 2001 Clayton Rd. at Galindo, Walnut Creek. SIGs include Internet, Windows, Beginner's, Visual Basic, education/entertainment, and more. Call: (510)943-1367. [Exp. #147.]

East Bay FOG. Meetings: 2nd Wed., 7:30 pm, Episcopal Church of St. John-in-Montclair, 1707 Gouldin Rd., Oakland. All microcomputers, MS-DOS, CP/M. Call: (510)653-2527, 8 am–10 pm. [Exp. #148.]

FUN PC (Fremont, Union City, Newark PC) Users Group. Meetings: 1st Wed., 6:30 pm, CompUSA Newark Training Room. Contact: (510)795-4286, #8. [Exp. #147.]

Golden Gate Computer Society. Meetings: 4th Mon., 7:00 pm, San Rafael Community Center, 618 B St., San Rafael. Free intro to computers class at 6:00 pm. Call: (415)454-5556. [Exp. #147.]

International Software SIG Of The Software Forum. Meetings: 3rd Mon., 7:00 pm, Center for Software Development, 111 W. St. John St., Ste. 200, San Jose. $10. Call: Charlie Pfefferkorn, (408)923-7570. [Exp. #148.]

Napa Valley PC Users Group. Meetings: 2nd Wed., 7:30 pm, Call: Lee Schwab, (707)257-2675 or *lee@community.net* for details and location. [Exp. #146.]

PC Clubhouse. Meetings: 1st Fri., 7:30 pm, swap at 7:00 pm, Meiklejohn Hall, Room 2002 (inside 1009), CSU Hayward. Share knowledge and PD/shareware, network of BBSes, mentor assistance, SIGs. Call: (510)276-6450 or 538-2449. [Exp. #148.]

Peninsula Computer Club. Meetings: 2nd Thurs., 7:30 pm, Rec Room, 222 Laurel St., San Carlos. DOS and CP/M libraries. Call: (415)593-9981, BBS (415)571-9259. [Exp. #147.]

San Francisco Business Computers. Meetings: 4th Tues., 5:30 pm, 110 Pacific, #153, San Francisco. For people who use computers in their work. Visitors $10. Call: (415)788-5338. MCI mail: 425-1545. [Exp. #147.]

San Francisco Computer Society. Meetings: 4th Mon., 7:00 pm, Presbyterian Church, 1329 7th Ave., San Francisco. CP/M and DOS, novices welcome. Call: Bob Forsberg, (415)885-6202. [Exp. #143.]

San Francisco PC Users Group. Meetings: 3rd Tues., 7:30 pm, St. Mary's Cathedral, 1111 Gough St., San Francisco. Call: Tom McLoughlin, (415)243-9830, or (415)346-2644. [Exp. #148.]

Silicon Valley Computer Society—SVCS. Meetings: 2nd Wed., 7:30 pm, Hewlett-Packard, Bldg. 48, Oak Room, 19483 Pruneridge Ave., Cupertino. Call: (408)956-0864; BBS, (408)956-0317. [Exp. #146.]

South Bay WordPerfect User Group. Meetings: 4th Tues. (no Dec. meeting), 6:45 pm, Novell, 2880 Lakeside, Suite 300, Santa Clara. WordPerfect for Windows product presentations and education. Free. Call: Scott Maiden, (408)253-4591. [Exp. #147.]

Stanford Palo Alto PC Users Group. Meetings: last Wed., 7:30 pm, Varian, 3075 Hansen Way, Bldg. 7, Auditorium, Palo Alto. Call: Beverly Altman, (415)329-8252. [Exp. #147.]

INTERNET

BCOOL (Bay Area Computer Org. On-Line). Meetings: 2nd Fri., location varies. Free online classes, tech support, discussions, Web surfing, novices welcome, more. Contact: Lloyd, (415)459-8916, BBS (415)459-6094. [Exp. #147.]

Internet SIG Of The Software Forum. Meetings: 2nd Wed., 7:00 pm, Sun Microsystems, Bldg. 6, 2750 Coast Ave., Mountain View. $10. Call: Walt Schilling, (408)764-6475. [Exp. #148.]

Old Town News & Coffee Internet Users Group. Meetings: every Thurs., 7:00 pm, Old Town News & Coffee, 926 Grant Ave., Novato. Hooked staff on hand to discuss setting up Web pages. Call: (415)897-4419 or *oldtown@hooked.net* or *http://hooked.net/users/oldtownnews* . [Exp. #147.]

Tri-City Internet Group. Meetings: 2nd Tues., 7:00 pm, Fremont main library, 2400 Stevenson Blvd., Fremont. Beginners and advanced users, discussions, Q&A, and demos. Call: Andy, (510)494-5400. [Exp. #147.]

LEGAL

BMUG Law SIG/Law SIG South. Meetings: 2nd Wed., 6:00 pm, Nossaman, Guthner, Knox & Elliot, 50 California St., 34th Fl., San Francisco. Call: Randy, (916)661-2280 or *rbs@aol.com*; or Ted, (415)383-4783 or *tllindberg@aol.com*. [Exp. #143.]

SF Bar Assoc. WordPerfect User Group. Meetings: 3rd Wed. odd-numbered months, noon, SF Bar Assoc. Boardroom, 7th Fl., 685 Market St., San Francisco. Brown bag meetings. Call: (415)421-5650. [Exp. #148.]

MACINTOSH

Association Of A32 Users. Meetings: 2nd Sat., 10:00 am, Sunnyvale Community Center Arboretum, 550 E. Remington Ave. (near corner of El Camino and Fair Oaks). Q&A session; guest speakers and vendor demonstrations; shareware, freeware, and PD software disks. Call: (408)263-0398. [Exp. #148.]

BMUG—Berkeley Macintosh User Group. Meetings: every Thurs., 6:00 pm, Warren Hall, Rm. 22, UC Berkeley campus. Call: (510)549-BMUG. [Exp. #143.]

USER GROUPS cont...

BMUG West. Meetings: last Mon., 6:30 pm, San Francisco Exploratorium. Call: (510)549-BMUG. [Exp. #143.]

CMUG-Christian Macintosh User Group. Meetings: 1st Thurs., 7:00 pm, San Jose. Learn more about your Mac. Monthly newsletter. Call: Rick Thrasher, (408)945-4773 or *RickT5@aol.com* . [Exp. #146.]

Diablo Valley Macintosh User Group (DVMUG). Meetings: 3rd Tues., 7:00 pm, Bancroft School, 2200 Parish Dr., Walnut Creek. Get together with Mac and Performa users. Many SIG meetings. Call: Tom Bacon, (510)945-4548. [Exp. #147.]

International Macintosh Users Group (IMUG). Meetings: 3rd Thurs., 7:00 pm, Apple Computer, R&D Campus, 1 Infinite Loop, Cupertino. A forum for multilingual/multiscript computing. Call: Roger Sherman, (415)859-5146. [Exp. #148.]

Macs Of Marin. Meetings: last Wed., 7:30 pm, Corte Madera Rec. Center, 498 Tamalpais Dr., Marin. Q&A 7:30, meeting 8:00, members free, nonmembers $5. Call: Richard, (415)485-5596. [Exp. #147.]

OpenDoc/Macintosh SIG Of The Software Forum. Meetings: 3rd Tues., 7:00 pm, Apple Computer, R&D Bldg. 4, 4 Infinite Loop, Cupertino. $10. Call: Tony Meadow, (510)644-9400. [Exp. #148.]

SPC Apple User Group. Meetings: 2nd Tues., 6:45 pm, Comp USA, New Park Mall, Newark (I-880 exit west on Steveson or Morey). The Society for Prevention of Cruelty to Apple Computers Users Group supports all Apple and Macintosh computers. Call: (510)881-9160. [Exp. #146.]

TriValley Macintosh User Group (TMUG). Meetings: 3rd Tues., 7:30 pm, Sonoma School, 543 Sonoma Ave., Livermore. Beginners to experts; library, newsletter, SIGs, and a BBS. Call: Jerry, (510)828-0959. [Exp. #146.]

MISCELLANEOUS

California Genealogical Society SIG. Meetings: 2nd Sat. odd months, CGS Library, 300 Brannan St., 4th Fl., San Francisco. All makes, models, and software welcome. Call: Dave Wilma, (415)681-5131 or *DavidWilma@aol.com* . [Exp. #146.]

Livermore Amateur Radio Klub. Meetings: 3rd Sat., 9:30 am, Livermore City Council Chambers, corner of Pacific and Livermore aves. All visitors are welcome. For those interested in amateur radio. Contact: Chuck Thompson, KE6DRN, (510)606-6074; or Clancy Soucie, N6FQQ, (510)462-8946. [Exp. #148.]

Marketing SIG Of The Software Forum. Meetings: 2nd Mon., 7:00 pm, Center for Software Development, 111W. St. John St., Ste. 200, San Jose. $10. Call: Stan Trumbull, (408)996-1376. [Exp. #148.]

MOBILE

Mobile/Wireless SIG Of The Software Forum. Meetings: 4th Wed., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Call: Dick Roistacher, (415)591-8236. [Exp. #148.]

MULTIMEDIA

Authorware User Forum. Meetings: last Tues. (except Aug./Dec.), 6:30 pm, Scitor Corp., 256 Gibraltar Dr., #C1, Sunnyvale. (510)736-5245. [Exp. #146.]

Multimedia SIG Of The Software Forum. Meetings: 4th Thurs., 7:00 pm, Center for Software Development, 111 W. St. John Street, Suite 200, Downtown San Jose. $10. Call: Dave McCutcheon, (415)506-4238 or Charlie Pfefferkorn, (408)923-7570. [Exp. #148.]

NETWORKING

Apple Network Manager's Association. Meetings: 3rd Thurs., 5:30 pm, Syntex Laboratories, Palo Alto. A forum for discussing problems and solutions associated with managing mixed environments with AppleTalk networks. Call: Bill Woodcock, (510)843-6369, email *woody@zocalo.com* for directions. [Exp. #143.]

Client/Server SIG Of The Software Forum. Meetings: 4th Tues., 7:00 pm, Cubberly Community Ctr., Rm. H-1, 4000 Middlefield Rd., Palo Alto. $10. Call: (415)854-7219. [Exp. #148.]

NOVELL

Monterey Novell User Group. Meetings: 3rd Thurs., 40 Ragsdale Dr. in Ryan Ranch off Hwy 68 in Monterey. Call: (408)645-2475. [Exp. #146.]

OS/2

OS/2 BAUG Developers SIG. Meetings: 2nd Mon., 7:00 pm, IBM, 1055 Joaquin Rd., Mountain View. Call: (510)945-7565, ext. 100. [Exp. #147.]

OS/2 BAUG Enterprise SIG. Meetings: 3rd Mon., 7:00 pm, IBM, 425 Market St., 22nd floor, San Francisco. Call: (510)945-7565, ext. 100. [Exp. #147.]

OS/2 Bay Area User Group. Meetings: 4th Mon., 7:00 pm, Stanford Linear Accelerator Center Auditorium, 2575 Sand Hill Rd., Menlo Park. For anyone interested in OS/2. Presentations, demonstrations, question and answer session. Call: (510)945-7565 ex. 100. [Exp. #147.]

PARADOX

Silicon Valley Paradox Users Group. Meetings: 3rd Tues., 7:00 pm, Tandem Computers, 10100 Tantau, Cupertino. User group of the Silicon Valley Computer Society. Call: Scott Jackson, (408)738-0424. [Exp. #147.]

PROGRAMMING LANGUAGES

Advanced C/C++ SIG Of The Software Forum. Meetings: 2nd Fri., 6:15 pm, UC Santa Cruz Extension, 3120 De La Cruz Blvd. (Trimble at 101), Santa Clara. $10. Call: Marian Corcoran, (408)973-1662. [Exp. #148.]

Silicon Valley Delphi SIG. Meetings: 1st Thurs., 7:00 pm, Loral Systems, 1260 Crossman, Sunnyvale. Special interest group of the Silicon Valley Computer Society. Call: Scott Jackson, (408)738-0424. [Exp. #147.]

Is Your Listing Missing?

Free user group and association listings are limited to the group's name, meeting information, contact name and phone number, and a ten-word description. They will be **deleted at six-month intervals** to ensure timeliness and accuracy of information.

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You can update or renew your listings at any time. If yours is missing, send your listing information to:

US Mail should go to: MicroTimes User Group, 3470 Buskirk Ave., Pleasant Hill, CA 94523. **Faxes** are welcome at (510)934-3958. **Email** can be sent to: *JohnDownen@aol.com* or MCI:MICROTIMES.

USER GROUPS cont...

Silicon Valley Forth Interest Group. Meetings: 4th Sat., 10:00 am–5:00 pm, 230 Lincoln Centre Dr., Foster City. Call: Dr. C.H. Ting, (415)638-5669 (w), 571-7639 (h). [Exp. #147.]

Visual Basic SIG Of San Francisco, Software Forum. Meetings: 3rd Thurs., 7:00 pm, Hotel ANA, 50 Third St., San Francisco. $10. Call: Dov Goreman, (510)525-9525. [Exp. #148.]

Visual Basic SIG Of The Software Forum. Meetings: 2nd Thurs., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $10. Call: Allan Colby, (415)851-4567. [Exp. #148.]

SILICON GRAPHICS

Bay Area Silicon Graphics Users Group—BASGUG. Meetings: 3rd Tues., 7:00 pm, X-Farm, 901 Battery St., Suite 300, corner of Vallejo, San Francisco. Dedicated to providing advanced information and education for SGI systems. Call: Doug Cain, (415)346-6150. [Exp. #147.]

TEXAS INSTRUMENTS

TI-99/4A. Meetings: 2nd Sat., Oakland. Need soft-/hardware? Call: Fred, (510)530-8335. [Exp. #146.]

UNIX

AT&T UNIX Computer Users Group. Call: Thad Floryan, (415)961-5157. [Exp. #147.]

Bay Area GNU Enthusiasts League (BAGEL). Meetings: will be decided soon—call for info. Dedicated to the proliferation and understanding of GNU public license software. Call: Erik Hetzner, (415)456-2759 or *erik.hetzner@infoway.com* . [Exp. #146.]

Open Systems SIG Of The Software Forum. Meetings: 2nd Tues., 7:00 pm, DEC Auditorium, 130 Lytton Ave., Palo Alto. $10. Call: George Bosworth, (415)851-3304. [Exp. #148.]

VIDEO TOASTER

Silicon Valley Video Toaster Desktop Video Users Group Meetings: last Thurs., 7:00 pm, HT Electronics, 422 Hillview Dr., Milpitas. Special guests, demonstrations, Toaster tutorials, info and tips on Toaster System 4.0, more. Contact: Andrew, (408)244-9692. [Exp. #147.]

VIRTUAL REALITY

Virtual Valley, The Silicon Valley And South Bay Virtual Reality Users' Group. Meetings: every two months (next meeting Sept. 7). Fun, information, networking, job leads, technical demos, speakers. $5. Call: Cleopatra Alfenito, (415)824-2536 or email: *virtual_valley_admin@gravity.com* . [Exp. #146.]

WINDOWS

Windows SIG Of The Software Forum. Meetings: 1st Wed., 7:00 pm, Cubberly Community Center, 4000 Middlefield Rd., Rm. H-1, Palo Alto. $15. Call: Fran Finnegan, (415)288-4400. [Exp. #148.]

ASSOCIATIONS

Association For Systems Management & Data Processing Management Association. Meetings: 1st Wed., 5:30 pm, Mountain View. Networking, dinner, speaker; $20 to $25. Call: (408)727-3906. [Exp. #148.]

Association For Women In Computing. Meetings: 1st Wed., 6:00 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. $10 members, $15 guests. Call: (415)979-8450. [Exp. #148.]

Bay Area Association Of Entrepreneurial Software Engineers. Meetings: 1st Tues., 6:30 pm. Dinner, lectures, discussion, brainstorming, networking, product development, financing, marketing, distribution. Call: Dr. Ipser, (510)494-8765. [Exp. #147.]

Black Data Processing Associates. Nationwide network of IT professionals with two chapters in the Bay Area. Call: Willie Mackey, (408)280-7624 or email: *wjmackey@netcom.com* . [Exp. #147.]

Business Marketing Association. Meetings: 4th Wed., 11:30 am, Marriott Hotel on Great America Pkwy., Santa Clara. A professional organization for business-to-business marketing professionals; CBC certification, topical programs, seminars, job bank. Call: (408)365-9815. [Exp. #148.]

Center For Software Development. 111 West Saint John, Ste. 200, San Jose. Provides resources for self-service testing, prototyping, and porting on many different platforms. Call: (408)494-8378. [Exp. #148.]

Computer Software Industry Association. An association working to keep California safe for the software industry. Call: Kaye Caldwell, (408)479-8743; email: *kaye@ix.netcom.com*; Web page: *http://www.well.com/user/csia/* . [Exp. #146.]

Independent Computer Consultants Association. Meetings: 2nd Tues., 6:00 pm, The City Club, 155 Sansome St., San Francisco. Open discussion, questions and answers. Call: (415)399-0305. [Exp. #148.]

International Interactive Communications Society. Meetings: 2nd Tues. Professional association for individuals involved in multimedia, from marketing to graphics and programming. Call: (415)553-2202, hotline: (415)252-8114. [Exp. #148.]

Management & Technology Association. Explore ways that computers can be used to improve a business's bottom line. Contact: (415)536-1900 or *mt-assoc@cm-solutions.com* . [Exp. #148.]

National Writers Union. Meetings: 1st Wed., location changes. Monthly meeting for professional technical writers. Call: Andreas Ramos, (415)709-1176 or email: *andreas@netcom.com* . [Exp. #146.]

Society For Technical Communication, San Francisco Chapter. Meetings: 3rd Wed., 6:00 pm, program at 6:45 pm, Stagecoach Restaurant, 44 Montgomery St., San Francisco. Job listings, guest speakers, technical publications competition, newsletter. Call: (415)985-7121, *http://stc.org* . [Exp. #148.]

Society For Technical Communication, Silicon Valley Chapter. Meetings: 3rd or 4th Thurs., 5:30 pm refreshments, 6:30 pm dinner, 7:15 dessert. Sunnyvale Hilton, 1250 Lakeside Drive (off Lawrence Expressway at 101). Guest speakers, special interest groups, networking, job listings, newsletter. Call: (408)737-9426. [Exp. #143.]

Software Forum. Meetings: 3rd Wed., 6:30 pm, Elks Lodge, 4249 El Camino Real, Palo Alto. Industry association dedicated to software developers and entrepreneurs, offering information and education on all facets of the software industry. Call: Barbara Cass, (415)854-7219. [Exp. #148.]

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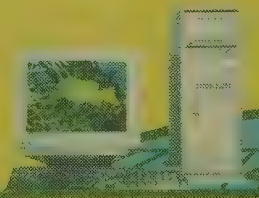

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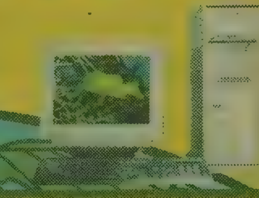

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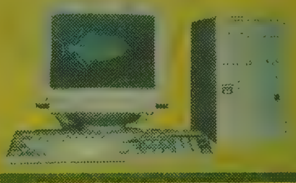

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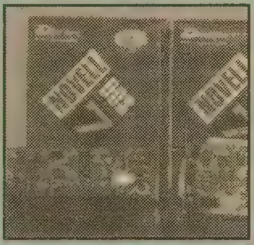

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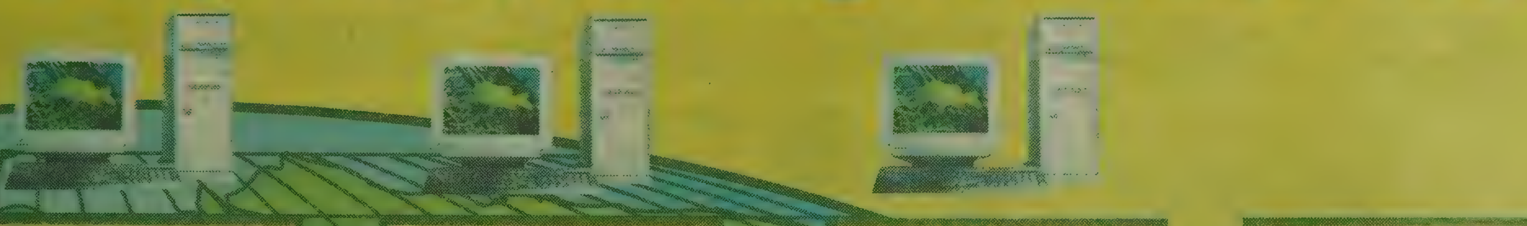

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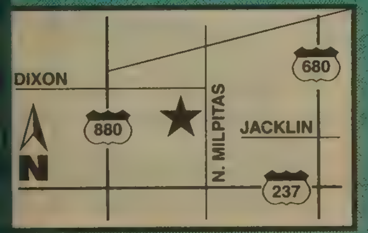

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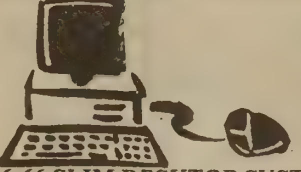

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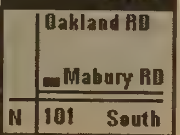

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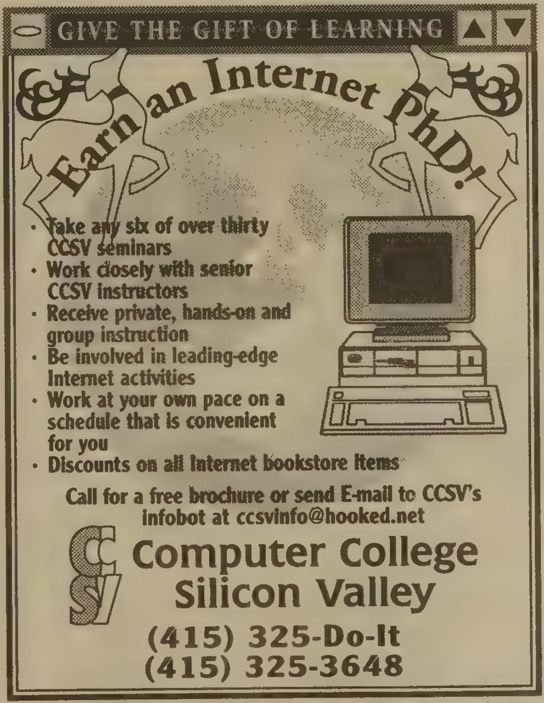

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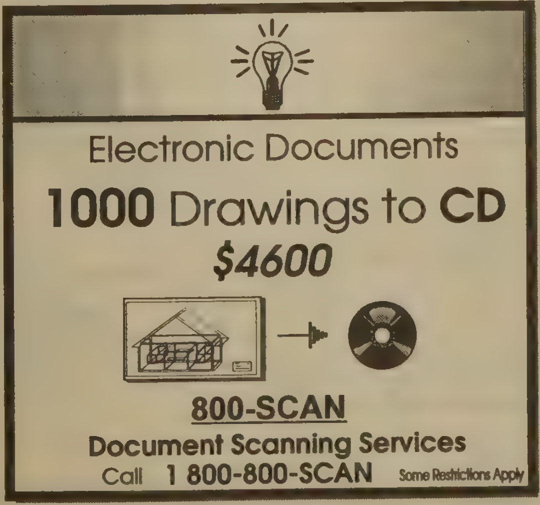

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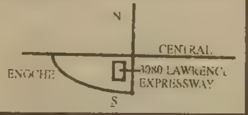

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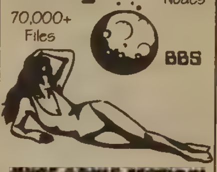

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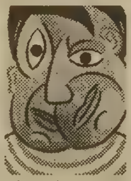
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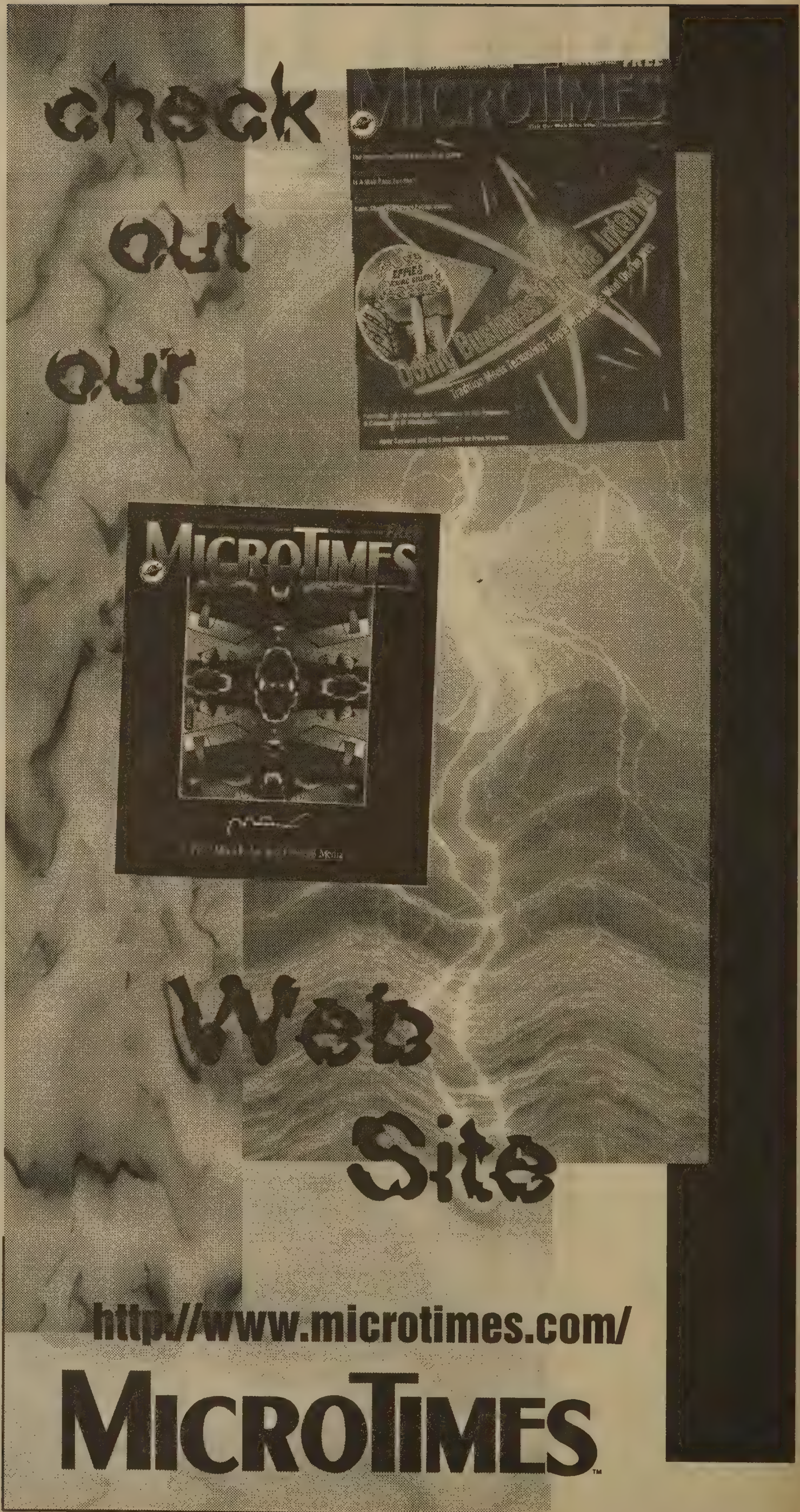

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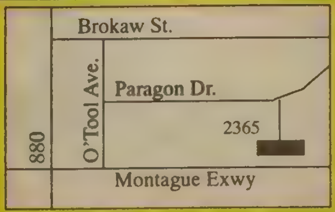

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P5-133/256C PCI (INTEL ZAPPA TRITON M/B)	198	728	N/A	998	1,138	1,378	1,228	1,398	1,428	1,598	1,908
P5-120/256C PCI (INTEL ZAPPA TRITON M/B)	198	558	N/A	828	968	1,208	1,058	1,228	1,258	1,428	1,738
P5-100/256C PCI (INTEL ZAPPA TRITON M/B)	198	488	N/A	758	898	1,138	988	1,158	1,188	1,358	1,668
P5-90/256C PCI (INTEL ZAPPA TRITON M/B)	198	458	N/A	728	868	1,108	958	1,128	1,158	1,328	1,638
P5-75/256C PCI (INTEL ZAPPA TRITON M/B)	198	380	N/A	650	790	1,030	880	1,050	1,080	1,250	1,560
P5-133/256C PCI (ASUS TRITON M/B)**	198	728	N/A	998	1,138	1,378	1,228	1,398	1,428	1,598	1,908
P5-120/256C PCI (ASUS TRITON M/B)**	198	558	N/A	828	968	1,208	1,058	1,228	1,258	1,428	1,738
P5-100/256C PCI (ASUS TRITON M/B)**	198	488	N/A	758	898	1,138	988	1,158	1,188	1,358	1,668
P5-90/256C PCI (ASUS TRITON M/B)**	198	458	N/A	728	868	1,108	958	1,128	1,158	1,328	1,638
P5-75/256C PCI (ASUS TRITON M/B)**	198	380	N/A	650	790	1,030	880	1,050	1,080	1,250	1,560
P5-133/256C PCI	148	668	N/A	938	1,078	1,318	1,168	1,338	1,368	1,538	1,848
P5-120/256C PCI	148	498	N/A	768	908	1,148	998	1,168	1,198	1,368	1,678
P5-100/256C PCI	138	438	N/A	708	848	1,088	938	1,108	1,138	1,308	1,618
P5-90/256C PCI	138	408	N/A	678	818	1,058	908	1,078	1,108	1,278	1,588
P5-75/256C PCI	138	318	N/A	588	728	968	818	988	1,018	1,188	1,498
P5-60/256C PCI	100	228	N/A	498	638	878	728	898	928	1,098	1,408
486DX4-100/256C VLB-PCI (ASUS M/B)	140	224	N/A	494	634	874	724	894	924	1,094	1,404
486DX2-80/256C VLB-PCI (ASUS M/B)	140	194	N/A	464	604	844	694	864	894	1,064	1,374
486DX2-66/256C VLB-PCI (ASUS M/B)	140	188	N/A	458	598	838	688	858	888	1,058	1,368
486DX4-120C VLB	60	154	314	414	544	784	634	804	834	1,004	1,314
486DX4-100C VLB	58	134	294	394	524	764	614	784	814	984	1,294
486DX2-80C VLB	56	92	254	352	482	722	572	742	772	942	1,252
486DX2-66C VLB	56	88	248	348	478	718	568	738	768	938	1,248
486DLC-40 ISA	N/A	58	218	318	448	688	538	708	738	908	1,218

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486DX2-80/128K VLB	798
486DX4-100/128K VLB	838
P5-60/256K VLB-PCI	908
P5-75/256K PCI	1,008
P5-90/256K PCI	1,048
P5-100/256K PCI	1,118
P5-120/256K PCI	1,178
P5-133/256K PCI	1,348

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- VLB or PCI SVGA Card w/1MB
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- Keytronics Keyboard
- Enhanced Case w/Power Supply
- Microsoft Compatible Mouse w/Pad
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486DX2-80/256K VLB	948
486DX4-100/256K VLB	998
P5-60/256K VLB-PCI	1,058
P5-75/256K PCI	1,158
P5-90/256K PCI	1,238
P5-100/256K PCI	1,268
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P5-90/256K PCI	1,428
P5-100/256K PCI	1,458
P5-120/256K PCI	1,518
P5-133/256K PCI	1,688
P5-75/256K PCI (Intel Zappa)	1,418
P5-90/256K PCI (Intel Zappa)	1,498
P5-100/256K PCI (Intel Zappa)	1,528
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P5-90/256K PCI (Asus M/B)*	[illegible]
P5-100/256K PCI (Asus M/B)*	[illegible]
P5-120/256K PCI (Asus M/B)*	[illegible]
P5-133/256K PCI (Asus M/B)*	[illegible]

*Please call for Pipelined cache upgrade

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Microsoft Windows 95 Full Copy	Add $93
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17" Non-Interlaced Monitor	Add 250
28.8 Internal Fax Modem	Add 102

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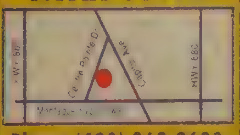

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Medium Tower Case w/230W Power Supply	57
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Optiquest UPS 280E / 420E	108 / 158

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VLB IDE I/O (2S/1P) w/16550 UART Chip	**19**

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2940 PCI / 2940W (SCSI)	**188 / 214**

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DTC 2278E VLB IDE W/16550 UART Chip	$25
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Promise DC-200 IDE Cache Controller	**$84**
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Promise DC-4030 VLB IDE Cache Controller	**84**
Promise DC-4030+	**114**
Promise DC-5030 PCI IDE 0-16MB Cache	**118**

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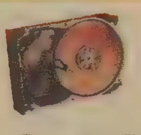

Quantum™ Maxtor® Seagate MICROPOLIS CONNER WESTERN DIGITAL

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Teac 1.2 /1.44 Floppy Drive	38 / 27
TEAC Dual Floppy Drive	**77**
3.5" DS/HD High Density Diskettes 10 Pack	**4**

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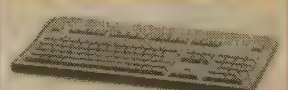

101 Enhanced Keyboard	$13
FOCUS	
FK2001 101-Key Click	**27**
FK7000 w/Trackball	30
FK8000 w/Calculator	34
FK9000 Programmable w/Calculator	39
Keytronics 101-Key Enhanced	**17**
Keytronics 104-Key for Windows 95	**29**
Mitsumi 101-Key Enhanced	**13**
Maxiswitch 101-Key Enhanced	**19**
Maxiswitch Pro II 124 Key Programmable	43
Microsoft Natural Key	**66**
NORTHGATE	
OMNI 101 NI / 102 / Ultra	**$59 / 60 / 76**

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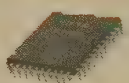

387DX-40 Tube / Box	**$19 / 30**
387DX-33 Tube / Box	**10 / 30**
387SX-40 Tube / Box	19 / 30
387SX-33 Tube / Box	**19 / 30**

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Fax Modem 14,400 External	55
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Fax Modem 28.8 with V.34 Int.	**102**
Fax Modem 28.8 with V.34 Ext	124
PCMCIA Fax Modem 14,400 w/Voice	89
PCMCIA Fax Modem 28,800 w/V.34	186
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Sportster Si 14,400 Fax Modem Int/Ext	**$48/68**
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Sportster 28.8 Fax Modem w/V.34 Int	**178**
Sportster 28.8 Fax Modem w/V.34 Ext	194

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First Mouse (OEM / Retail)	$12 / 25
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14" SGA 1024•768 .28 NI	**204**
15" SVGA 1280•1024 .28 (KFC)	284
17" SVGA 1280•1024 .28 (KFC)	**528**

CTX

14" Super VGA 1024•768 .28 NI	$228
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MF-8617E 17" 1600•1200 .26	728
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MF-8221E 21" 1600•1200 .28	1,888

Impression

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5E 15" 1280•1024 .28 NI	286
7E 17" 1280•1024 .28 NI	538

MAG INNOVISION

15FE 15" 1280•1024 .28	**$348**
17F 17" 1280•1024 .26	**618**

NANAO®

F2-17 .28 / F2-17EX .26	798 / 924
T2-17TS .25 / T2-17 .25	956 / 1,216
T2-20 .30	1,878

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Multisync XV 17 / XE 17 / XP 17	718 / 968 / 998
Multisync XE 21 / XP 21	1,700 / 2,050

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447L 17" 1024•768 .28	688
447X 17" 1600•1280 .25	948
445X 21" 1600•1280 .28 TCO	1,998

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17SF 17" 1280•1024 .25	**808**
20SE1 20" 1600•1200 .30	1,828

ViewSonic®

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17EA 17" 1280•1024 .28	638
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17GS 17" 1280•1024 .28 Green	**698**
20G 20" 1600•1280 .28	1,148
21PS 21" 1600•1280 .25	**1,560**

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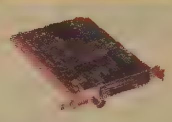
NETWORKS



16 BIT Ethernet Cards (Coax)	**$20**
16 BIT Ethernet Cards (10 Base-T)	**20**
16 BIT Ethernet Cards (Combo)	**21**

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3C590 PCI TP / Combo	118 / 138
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LinkBuilder 12 Port Hub / 24 Port Hub	478 / 840

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8-Port 10 Base T HUB (w/BNC)	$94
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Color Option for Citizen Printers	48

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HP 660C / 850C	418 / 558
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HP 5L-FS / 5P	528 / 868

Panasonic Office Automation OA

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Color Upgrade Kit KX-PCK11	52

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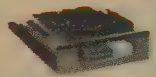

AIWA 250MB Internal w/Tape	**$64**
Conner 250MB Internal	**98 (w/tape 108)**
Conner 420MB Internal w/Tape	**124**
Conner 800MB Internal w/Tape	**158**
Conner 850MB Internal w/Tape	178
Conner 1.7GB Internal w/Tape	**228**
Conner 4.0GB SCSI w/Tape	**518**

COLORADO MEMORY SYSTEMS

DJ-35 350MB Internal	**116**
T-1000 800MB Internal	**150 (w/tape 174)**
DJ-50 1.4GB Internal	**220**
Tape QIC-80 3M DC2120	**13**
JT-35C Trakker 350MB Ext	218

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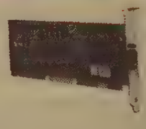
Microsoft Windows 95 Full Copy (w/system)	$93
Microsoft DOS 6.x (with System)	36
Microsoft Office Professional 4.3 OEM (with System)	218
Microsoft Windows 3.x (with System)	46
Microsoft Windows for Workgroup (with System)	54

VGA CARDS



MGP Card	$10
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Trident VLB w/1MB	**61**
Trident PCI w/1MB	**62**

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Ultra Pro ISA 2MB VRAM (MACH 32)	188
WinBoost PCI 1MB DRAM (Mach 64)	**116**
WinBoost VLB 1MB DRAM (Mach 64)	**121**
WinBoost PCI 2MB DRAM (Mach 64)	**156**
WinBoost VLB 2MB DRAM (Mach 64)	**158**
WinTurbo 64 PCI 2MB VRAM (Mach 64)	**230**
WinTurbo 64 VLB 2MB VRAM (Mach 64)	**232**
WinTurbo 64 PCI 4MB VRAM (Mach 64)	**382**
WinTurbo 64 VLB 4MB VRAM (Mach 64)	**396**

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Stealth SE PCI 1MB (DRAM)	**82**
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Stealth 64 PCI 2MB (DRAM)	**146**
Stealth 64 VLB 2MB (DRAM)	**150**
Stealth 64 PCI 2MB (VRAM)	**236**
Stealth 64 VLB 2MB (VRAM)	**208**
Stealth 64 PCI 4MB (VRAM)	**378**
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#9 FX Motion 771 PCI 2MB (VRAM)	250

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Fahrenheit 64 PCI 1MB (VRAM)	95
Fahrenheit 64 VLB 1MB (DRAM)	95
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Fahrenheit 64 VLB 2MB (DRAM)	136
Fahrenheit 64 Pro PCI 2MB (VRAM)	230
Fahrenheit 64 VLB 2MB (VRAM)	230
Fahrenheit 64 Pro PCI 4MB (VRAM)	358
Fahrenheit 64 VLB 4MB (VRAM)	358

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486DX2-66/128K VLB	104
486DX2-80/128K VLB	108
486DX4-100/128K VLB	154
P5-60/256K PCI	228
P5-75/256K PCI	318
P5-90/256K PCI	408
P5-100/256K PCI	438
P5-120/256K PCI	498
P5-133/256K PCI	668
ASUS	
486DX2-66/256K VLB	$164
486DX2-66/256K VLB-PCI	188
486DX2-80/256K VLB-PCI	194
486DX4-100/256K VLB-PCI	224
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P5-90/256K PCI (TRITON)**	458
P5-100/256K PCI (TRITON)**	488
P5-120/256K PCI (TRITON)**	558
P5-133/256K PCI (TRITON)**	728
INTEL	
P5-75/256K PCI (ZAPPA TRITON)	380
P5-90/256K PCI (ZAPPA TRITON)	458
P5-100/256K PCI (ZAPPA TRITON)	488
P5-120/256K PCI (ZAPPA TRITON)	558
P5-133/256K PCI (ZAPPA TRITON)	728
P5-75/256K PCI (ENDEAVOR)**	468
P5-90/256K PCI (ENDEAVOR)**	544
P5-100/256K PCI (ENDEAVOR)**	578
P5-120/256K PCI (ENDEAVOR)**	644
P5-133/256K PCI (ENDEAVOR)**	814

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Hitachi 4X IDE	128
Mitsumi FX 400 4-Speed IDE	126
NEC 4X (511) 4-Speed SCSI Int.	212
NEC 6X (512) 6-Speed SCSI Int.	316
Panasonic Dual Speed	48 (w/Card 62)
Panasonic 504 4-Speed SCSI Int.	168
Panasonic 574 4-Speed IDE Int.	138
Sanyo 254SH SCSI 4-Speed Int.	152
SONY 76E 4X IDE	132
SONY 55S 2X SCSI	98
TEAC CD-55A 4-Speed Int.	115 (w/Card 130)
TEAC 506A 4-Speed IDE w/1.44 FDD	176
TEAC CD-56E 6-Speed IDE Int	228
Toshiba XM-5302 4-Speed IDE Int.	138
Toshiba 5301 4-Speed SCSI Internal	196
Toshiba XM-3601B (SCSI) 4-Speed Int.	278
Deluxe Speakers	6
Speakers 40 Watt/80 Watt/120 Watt	18 / 32 / 42

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16-Bit Sound Card	$40
Televideo 16 MCD / IDE	52

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Sound Blaster Pro 16 IDE	67
Sound Blaster Pro 16 MCD	65
Sound Blaster Pro 16 MCD w/ASP	74
Sound Blaster Pro 16 SCSI	98
Sound Blaster AWE 32 Value MCD 512K	144

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Action	5
All You Can Play	6
American Heritage Talking Dictionary	12
Annabel's Dreams – Egypt	7
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Best Windows Games	6
Bible Study and Games	7
Book of Patterns	8
Bring the World to Your Senses	7
Business Library	6
Carmen San Diego DOS	12
CD Deluxe Pak (Chess Master 3000, Mavis Teaches Typing, US Atlas, World Atlas)	10
Challenge Pack	10
Complete Guide to Prescription	6
Complete Guide to Symptoms	6
Compton's Interactive Encyclopedia MPC	12
Desert Storm	7
Desktop Publisher's Dream 1994	6
Doom Shareware	7
Eureka Pack (CD Deluxe Pack, Challenge Pack, Compton's Interactive Enclopedia, 14 Titles on 3 CDs)	32
Family Choice	14
Family Doctor	14
Family Health Tracker	5
Game Galore	6
Golf (w/System)	5
Great Cities	15
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Jones in Fast Lane	12
Just Grandma and Me	12
King's Quest V DOS	12
Language of the World	9
Learning Games (Windows)	7
Magic Death Virtual Murder 2	12
Mario is Missing	14
Mavis Teaches Typing MPC	13
Mayo Clinic Family Health	13
Medical Dictionary Family Health Guide	6
Microsoft Bookshelf MPC 1994 (with system)	26
Microsoft Encarta 1995 (with system)	22
Microsoft Super Home Bundle (Works, Encarta, Golf, Money, and Bundle CDs) w/system	64
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Playing with Language – German	14
Playing with Language – Japan	14
Playing with Language – Spanish	14
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Star Trek 25th Anniversary	14
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Thinking Games (Windows)	6
Thunder Media Sound Library	10
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USA Wars – Korea	18
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- Docking Station Option

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* All notebook computers come with Intel CPU

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Extra AC Adapter	Add $70
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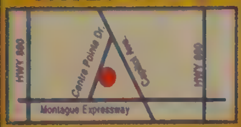

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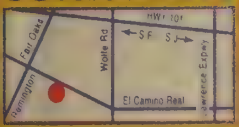

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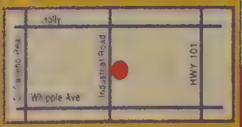

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4. Shipping, insurance and COD charges are extra and non-refundable. Prices reflect cash discounts.
5. Return shipping must be insured, prepaid and bearing an RMA# on the shipping label.
6. Defective items replaced or repaired at our discretion.
7. No responsible for typos.
8. All returns subject to 15% restocking fee and cover only Hi-Tech USA brand computers, excludes peripherals and software. No refunds after 30 days.
9. Superior reputation for service, quality and value.
10. Purchase orders are welcomed and subject to approval.

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Value-Net Internet

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HD Computers
Innocom Systems
Perfect Solutions Multimedia

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Nordic Computers

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TP 510CS 4-200 486SLC2/50. Color	$1.095
TP 701C DX4/75 8-540	$3.295
TP 701CS DX4/75 8-540	$2.995
TP 755C DX4/75 4-540/810 Active	$2.850/3.050
TP 755CS DX4/75 4-340/810 Passive	$2.250/2.550
TP755CD 8-540/810	$4.295/4.595
TP 755CDV DX4/100 8-540/810	$5.750/5.995
Memory 4/8/16/32MB	$195/349/649/1.195
Battery 755CD, 755 & 750/720, 700	$199/69

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▲Pen Based 486, Passive Color, Car Adapter, 84 Key KB., Stereo Sound

4-170 $1,445
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PS/2 System Board & Floppy Drive

M.80 & 70-25/20/16MHz Sys. Brd.	$195/150/125
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IBM 59G7799 SVGA Monitor	$285
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16/32MB For Desktops	$595/1,150

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T-2150CDS/T-2150CDT M.500	$2,249/3.595
T-2400CT M.250/320	$1,929/2.129
T-2450CT M.320/500	$2,799/2,899
T-3400CT M.250/500	$1,379/1,579
T-400CS M.810 NEW	$3,095
T-400CDT M.810 NEW	$3,895
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T-410CS/CT M.1.3GB NEW	$4,199/4,495

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T-2115CS M.350	$1,595
T-2105CS/CT M.320	$1.399/1.749
T-2130CS/T-2130CT M.520	$1.895/2,595
T-2155CDS/CDT M.520	$1,949/2,795
T-2400CS/CT M.320	$1.499/1,699
T-3400CT M.200/500	$1,129/1,299
T-3600CT M.250/500	$1.895/2,099
T-4700CT/T-4700CS/T-4800/T-4850CT	CALL
T-4900CT M.810	$3,695
T-6400SXC-120/T-6400DXC-200	$1.329/1.529
T-6400SXC-120/T-6400DXC-200	$1.329/1.529
T-610CT M.720	$3,399
T-400CDS/CDT M.810	$2,795/3,699

T-2155CDS 4-500 CD $1,949

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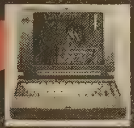

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Proliant 1500 5/75 M.2100	$5,850
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Prosignia Pentium/60 M.16MB/2GB CD	$3,295
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1/2.1/4GB HD f/Proliant	$595/1,195/1,850

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4/8MB For Desktops	$175/335
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1200SE 1200-2400dpi, 30-Bit Color, One-Pass	$999
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Transparency Adapter For Above	$379

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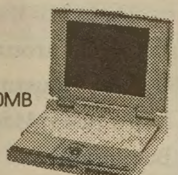

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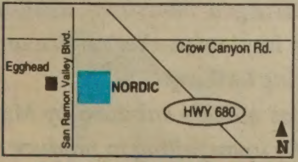

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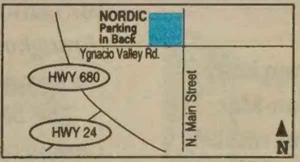

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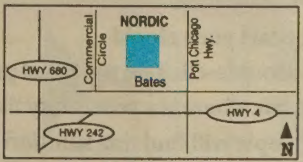

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DVORAK'S LAST COLUMN • BY JOHN C. DVORAK

Urban Humor

or

Get Your Free Jokes Off The Internet

Who says the liberal arts are useless? Apparently that old Alan Dundes Folklore class at Cal Berkeley has paid off for me.

Yes, I'm at it again. Lifting jokes off the Internet and putting them in print. This is called Folklore documentation. There is funny material out there and somebody has to collect it. My basket of Internet Urban Folklore is full and I thought I'd dump some off here. I'm making room for the OJ Simpson jokes being posted as I write this.

I managed to find a group of Windows 95 and Microsoft thematic jokes and comments. From George Bigham comes this comment that has been circulating:

"Folks, knowing that Mac Excel is VERY sluggish compared to its Windows sibling, here is a creative work-around suggested by Dreux St. Marie, of the Houston Apple office:

1. Buy a PowerMac 9500
2. Buy and Install the new SoftWindows v2.0 (emulates about a 486 DX/66 running Windows 3.X)
3. Buy and Install Microsoft Office V.4.30 for Windows
4. Launch Windows
5. Double-click on the MS Office Program Group Icon
6. Start your clock!
7. Double-click on the Excel program item icon. There is a possibility that non-Mac people will find this solution a little unlikely :)

Then let's not forget the Top Ten Stones Songs for Win 95. This was one of the most popular postings on the net just before the Win 95 rollout. Whoever wrote it should be publicly applauded. It's not easy to make these lists funny.

Top 10 Rolling Stones songs that would be more appropriate than "Start Me Up" for the Windows 95 commercial

10. Just My Imagination
9. I'm Going Down
8. Let It Bleed
7. Gimme Shelter
6. Bitch
5. Shattered
4. Play With Fire
3. (I can't get no) Satisfaction
2. You Can't Always Get What You Want
and the number one.. one.. appropriate song..
1. 19th Nervous Breakdown

Excellent list. One thing that keeps showing up on the net are fake news stories about Microsoft. Here's a recent one that floated around.

MICROSOFT TESTER DIES TRAGICALLY
AT HANDS OF "PAL"
REDMOND, WA -

The Microsoft Redmond Campus was rocked by tragedy today as Paul Fitzgerald, Test Engineer on the Windows NT Team, was brutally murdered in an apparently psychotic tirade by one of the "personalities" of Microsoft's latest operating system shell program, Bob. In the small hours of this morning, Java, the "friendly" coffee-drinking dinosaur, burst from the screen of Fitzgerald's computer, cutting a swath of destruction throughout the hapless worker's office and into the accompanying hallway.

The beast was quickly subdued by Microsoft Campus Security upon failing to produce a valid Microsoft keycard, avoiding what could otherwise have been a tragedy of much greater proportions. He is currently undergoing psychiatric evaluation at the Washington Institute for Perfectly Valid Lifeforms Who in the Heat of the Moment Do Some Absolutely Naughty Things. Says Lars Opstad, chief spiritual healer and concert pianist, "It's touch and go right now. I don't think Java yet realizes the immensity of what he's done."

Eyewitnesses say that they could hear the stegosaur-like computer guide screaming "All I wanted was a GOOD espresso" in those terrible moments before dawn. Said Rover Retriever, another Bob personality, "This is just terrible. Java was always such a great guy. Sure, he was a little high strung, but I can't believe he would do something like this. I think we need to seriously reexamine the stress that the Bob Personality group is under so that another such incident doesn't occur."

A possible precipitant to the incident could be Java's recent attempt to quit smoking as a result of a clause in his contract. Lawyers are examining whether this constitutes a violation of discriminatory hiring statutes on Microsoft's part. Microsoft Legal could not be reached for comment, but an undisclosed source asserted, "We couldn't have him puffing away like that. He's a dinosaur, not a dragon. It would confuse the market."

Coroner's reports say Fitzgerald died instantly of cardiac arrest, but are unclear on whether this was a result of the vicious attack or the fact that Bob installed successfully on NT.

Finally, this:

WOMAN CALLING TALK SHOW: "Do I need, um, a computer to use Windows 95?"

TALK SHOW HOST: "You'll have less trouble with Windows 95 without a computer than with one!!"

...and so it goes. ■

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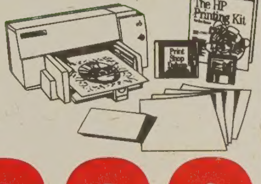

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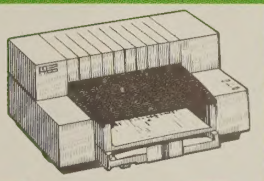

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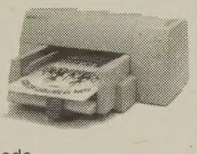

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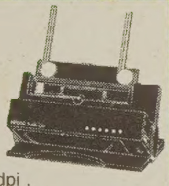

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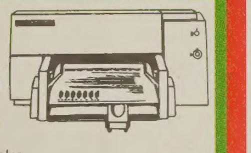

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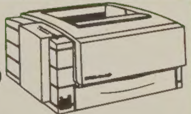

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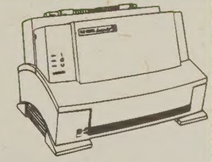

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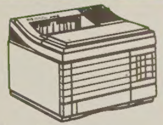

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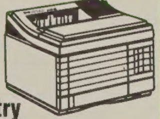

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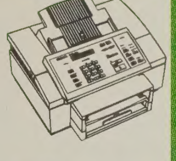

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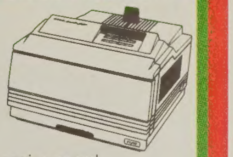

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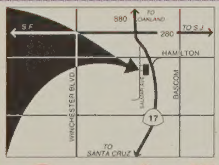

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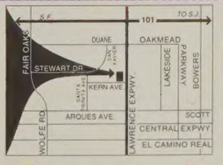

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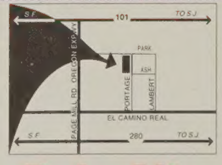

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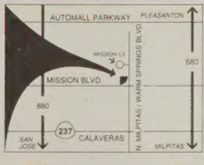

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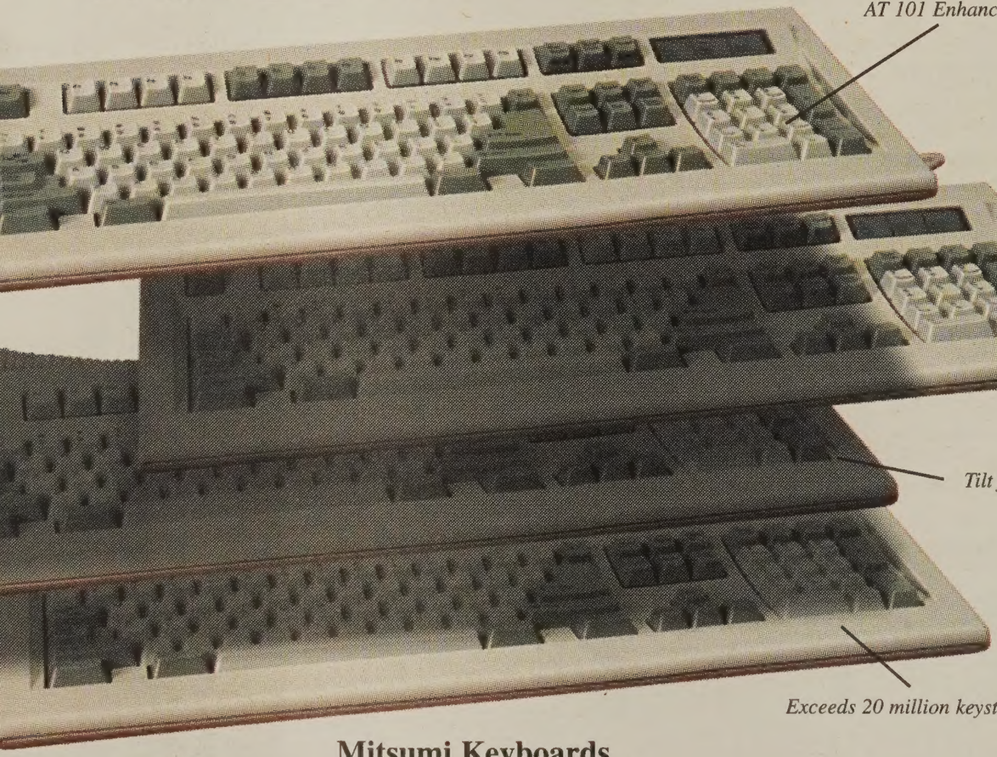

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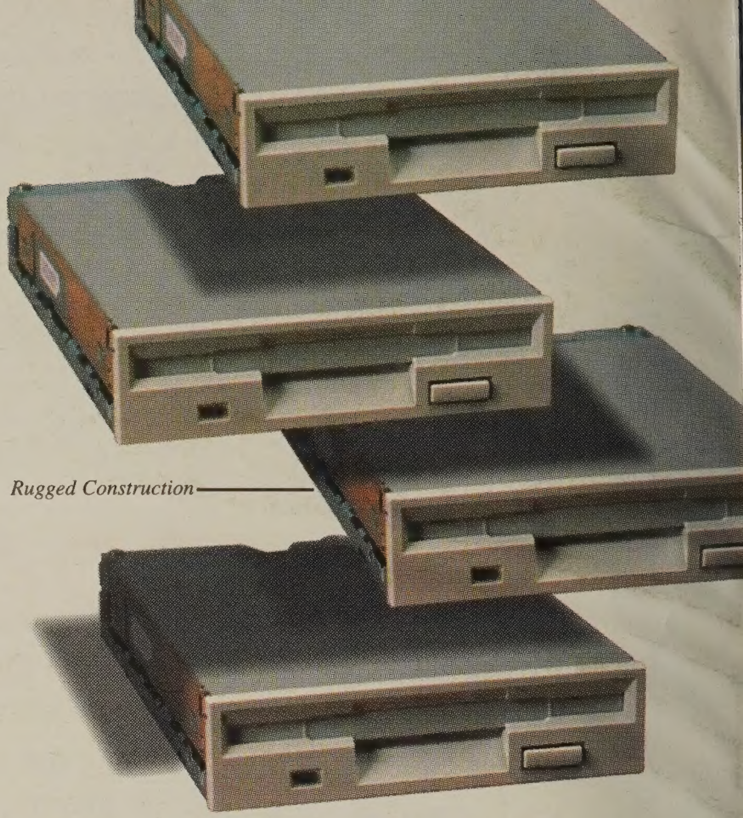

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